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FIGURE 1

ATCACATGCCTATCATATAGTAAAACCCAGCCCATGGCCCCTAACAGGGGCCCTCTCAGCCCTCCTAATGACCTC
CGGCCTAGCCATGTGATTTCACTTCCACTCCACAACCCTCCTCATACTAGGCCTACTAACCAACACACTAACCAT
ATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACACACCACCTGTCCAGAAAGGCGT
TCGATACGGGATAATCCTATTTATTACCTCAGAAGTTTTTTTCTTCGCAGGATTTTTCTGAGCCTTTTACCACTC
CAGCCTAGCTCCCACCCCACTAGGGGGACACTGGCCCCAACAGGCATCACCCCGCTAAATCCCCTAGAAGT
CCCACTCCTAAACACATCCGTATTACTCGCATCAGGGGTATCAATCACCTGAGCTCACCATAGTCTAATAGTCTA
TTTACCCTCCTACAAGCCTCAGAGTACTTCGAG

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FIGURE 2

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATTTCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTAATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTATGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAAAGTCTGCCTCACAGCAGATTCTTCAGGCCAGCATCTACCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCAGTGGCCTCTTTCGGCCCAGCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 3

CAAGCTCATGACTCACAAATGGCCTATTTAGGCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGCCTACTGC
CTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTT
CTCTCCAGGCTCTGAACTTTCTCAGGTCTCCCTCTGTTGTCCAAGGCTGGAGTGTAGTAGTGCTATCGCAGCTGA
CTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCACCTCAACCTCCCACGTGGCTGAGACTACAGGTGCTTG
CCACTATGCCCAACTAACATTTGGAATTTTCGTATACGTGGATTCCAGAGGGGTGACAGCGAAACGTGGGACCAT
TCAGTTGCAGGAAAACAAGCTTAACACGCCCATAATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGG
CCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAAATG

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FIGURE 4

CGTCGGCCCCCGGCCCCCAGCAGCCTCCAAAGCCCTGTGACTCACAGCCCTGCTTCCACGGGGGGACCTGCCAG
GACTGGGCATTGGGCGGGGGCTTACCTGCAGCTGCCCGGCAGGCAGGGGAGGCGCCGTCTGTGAGAAGGTGCTT
GGCGCCCCCTGTGCCGGCCTTCAGAGGCGGCTCCTTCTGGCCTTCCCCACTCTCCGCGCCTACCACAGCTGCGC
CTGGCACTGGAATTCCGGGCGCTGGAGCCTCAGGGGCTGCTGCTGTACAATGGCAACGCCCCGGGGCAAGGACTTC
CTGGCATTGGCGCTGCTAGATGGCCGCGTGCAGCTCAGGTTTGACACAGGTTTCGGGGCCGGCGGTGCTGACCAGT
GCCGTGCCGGTAGAGCCGGGCCAGTGGCACCGCCTGGAGCTGTCCCGGCACTGGCGCCGGGGCACCCCTCTCGGTG
GATGGTGAGACCCCTGTTCTGGGCGAGAGTCCCAGTGGCACCGACGGCCTCAACCTGGACACAGACCTCTTTGTG
GGCGGCGTACCCGAGGACCAGGCTGCCGTGGCGCTGGAGCGGACCTTCGTGGGCGCCGGCCTGAGGGGGTGCATC
CGTTTGCTGGACGTCAACAACCAGCGCCTGGAGCTTGGCATTGGGGCCGGGGGCTGCCACCCGAGGCTCTGGCGTG
GGCAAGTGCGGGGACCACCCCTGCCTGCCCAACCCCTGCCATGGCGGGGCCCCATGCCAGAACCTGGAGGCTGGA
AGGTTCCATTGCCAGTGGCCGCCCCGGCGCGTGGACCAACCTGTGCCGATGAGAAGAGCCCCCTGCCAGCCCAAC
CCCTGCCATGGGGCGGCGCCCTGCCGTGTGCTGCCCGAGGGTGGTGCTCAGTGCGAGTGCCCCCTGGGGCGTGAG
GGCACCTTCTGCCAGACAGCCTCGGGGCAGGACGGCTCTGGGCCCTTCTGGCTGACTTCAACGGCTTCTCCAC
CTGGAGCTGAGAGGCTGCACACCTTTCACGGGACCTGGGGGAGAAGATGGCGCTGGAGGTCTGTTCCTGGCA
CGAGGCCCCAGCGCCTCCTGCTCTACAACGGGCAGAAGACGGACGGCAAGGGGGACTTCGTGTGCTGGCACTG
CGGGACCGCCGCTGGAGTTCGCTACGACCTGGGCAAGGGGGCAGCGGTCTCAGGAGCAGGGAGCCAGTCACC
CTGGGAGCCTGGACCAGGTCTCACTGGAGCGAAACGGCCGCAAGGGTGGCCTGCGTGTGGGCGACGGCCCCGT
GTGTTGGGGGAGTCCCCGGTTCGCGACACCGTCTCAACCTGAAGGAGCCGCTCTACGTAGGGGGCGCTCCCGAC
TTCAGCAAGCTGGCCCCGTGCTGCTGCCGTGTCTCTGGCTTCGACGGTGCCATCCAGCTGGTCTCCCTCGGAGGC
CGCCAGCTGCTGACCCCGGAGCACGTGCTGCGGCAGGTGGACGTACGTCTTTGCAGGTACCCCTGCACCCGG
GCCTCAGGCCACCCCTGCCTCAATGGGGCCTCCTGCGTCCCGAGGGAGGCTGCCTATGTGTGCTGTGTCCCGG
GGATTCTCAGGACCGCACTGCGAGAAGGGGCTGGTGGAGAAGTCAGCGGGGGACGTGGATACCTTGGCCTTTGAC
GGGCGGACCTTTGTGCGAGTACCTCAACGCTGTGACCGAGAGCGAGAAGGCACTGCAGAGCAACCCTTTGAACTG
AGCCTGCGCACTGAGGCCACGCAGGGGCTGGTGTCTTGGAGTGGCAAGGCCACGGAGCGGGCAGACTATGTGGCA
CTGGCCATTGTGGACGGGCACCTGCAACTGAGCTACAACCTGGGCTCCCAGCCCGTGGTGTGCGTTCCACCGTG
CCCGTCAACACCAACCGCTGGTTGCGGGTCTGTGGCACATAGGGAGCAGAGGGAAGGTTCCCTGCAGGTGGGCAAT
GAGGCCCCCTGTGACCGGCTCCTCCCCGTGGGCGCCACGCAGCTGGACACTGATGGAGCCCTGTGGCTTGGGGGC
CTGCCGGAGCTGCCCCGTGGGCCCCAGCACTGCCCAAGGCCTACGGCACAGGCTTTGTGGGCTGCTTGCGGGACGTG
GTGGTGGGCGGGCACCCGCTGCACCTGCTGGAGGACGCGCTACCAAGCCAGAGCTGCGGCCCTGCCCCACCCCA
TGAGCTGGCACCAGAGCCCCGCGCCCGCTGTAATTATTTTCTATTTTGTAAACTTGTGCTTTTGTATGATT
TTCTTGCTGAGTGTGGCCGGAGGGACTGCTGGCCCGGCTCCCTTCCGTCCAGGCAGCCGTGCTGCAGACAGA
CCTAGTGCCGAGGGATGGACAGGCGAGGTGGCAGCGTGGAGGGCTCGGCGTGGATGGCAGCCTCAGGACACACAC
CCCTGCCTCAAGGTGCTGAGCCCCGCTTGCACCTGCGCCTGCCCCACGGTGTCCCCGCGGGAAGCAGCCCCGG
CTCCTGAATACCCCTCGCTCCGTACAGCGGGACTCGTGTCCAGAGAGGAAGGGGCTGCTGAGGTCTGATGGGGC
CCTTCTCCGGGTGACCCACAGGGCCTTTCCAAGCCCCATTGAGCTGCTCCTTCTGTGTGTGCTCTGGGCC
CTGCCTCGGCCTCTGCGCCAATACTGTGACTTCCAAACAATGTTACTGCTGGGCACAGCTCTGCGTTGCTCCCG
TGCTGCCTGCGCCAGCCCCAGGCTGCTGAGGAGCAGAGGCCAGACCAGGGCCGATCTGGGTGTCTGACCCCTCAG
CTGGCCCTGCCAGCCACCCCTGGACATGACCGTATCCCTCTGCCACACCCAGGCCCTGCGAGGGGCTATCGAGA
GGAGCTCACTGTGGGATGGGGTTGACCTCTGCCGCTGCTGGGTATCTGGGCTGGCCATGGCTGTGTTCTTCA
TGTGTTGATTTTATTTGACCCCTGGAGTGGTGGGTCTCATCTTCCCATCTCGCCTGAGAGCGGCTGAGGGCTGC
CTCACTGCAAATCCTCCCCACAGCGTCAGTGAAAGTCGTCTCTGCTCAGAATGACCAGGGGCCAGCCAGTGTCT
GACCAAGGTCAAGGGGCAGGTGCAGAGGTGGCAGGGATGGCTCCGAAGCCAGAAATGCCTTAAACTGCAACGTCC
CGTCCCTTCCCCACCCCATCCCATCCCCACCCCGAGCCAGTCCCTCCTAGGAGCAGGACCCGATGAAG
CGGGCGGCGGTGGGGCTGGGTGCCGTGTTACTAACTCTAGTATGTTTCTGTGTCAATCGCTGTGAAATAAAGTCT
GAAAACTTT

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FIGURE 5

MLNSSLMRI TLRNLEEVEFCVEDKPGTHFTVPPTPPDACRGM LCGFGAVCEPNAEGPGRASCVCCKKSPCP SVVA
PVC GSDASTYSNECELQRAQCSQQRRIRLLSRGFCGSRDPCS NVTC SFGSTCARSADGLTASCLCPATCRGAPEG
TVCGSDGADYPGECQLLRRACARQENVFKKFDGFCDFCQGALPDP SRSCR VNPRTTRPEMLLRPESCPARQAPVC
GDDGV TYENDCVMGRSGAARGLL LQKVRSGQCQGRDQCPEPCRFNAVCLSRGRPRCSCDRVTCDGAYRPVCAQD
GRTYSDCWRQQAECRQORAIPSKHQGPCDQAPSPCLGVQCAFGATCAVKNQQAACECLQACSSLYDPVCGSDGV
TYGSACELEATACTLGREIQVARKGPCDRCGQCRFGALCEAETGRCVCPSECV ALAQPVCGSDGHTYPSECMLHV
HACTHQISLHVASAGPCETCGDAVCAFGAVCSAGQCVCPRCEHPPPGPVCGSDGV TYGSACELREAACLQQTQIE
EARAGPCEQAECGSGGSGSGEDGDCEQELCRQRGGIWDEDSGDGFCVDFSCQSVPGSPVCGSDGV TYSTECELK
KARCESQ RGLYVAAQGACRGPTTFAPLPVAPLHCAQT PYGCCQDNIT AARGVGLAGCPSACQCNPHGSYGGTCDP
ATGQCSCRPGVGGRLCDRCEPGFWNFRGIVTDGRSGCTPCSCDPQGAVRDDCEQMTGLC SCKPGVAGPKCGQCPD
GRALGPAGCEADASAPATCAEMRCEFGARCVEESGSAHCVCPLMTCPEANATKVC GSDGV TYGNECQLKTIACRQ
GLQISIQSLGPCQEAVAPSTHPT SASVTVTTPGLLLSQALPAPP GALPLAPSSTAHSQTTPPPSSRPRTTASVPR
TTVWPVLTVPPTAPSPAPSLVASAFGESGSTDGSSDEELSGDQEASGGGSGGLEPLEGSSVATPGPPVERASCYN
SALGCCSDGKTPSLDAEGSNCPATKVFGVLELEGVGEQELFYTPEMADPKSELFGETARSIESTLDDLFRNSDV
KKDFRSVRLRDLGPGKSVRAIVDVHFDPTTAFRAPDVARALLRQIQVSRRRSLGVRRPLQEHVRFMDFDWFPFI
TGATSGAIAAGATARATTASRLPSSAVTPRAPHP SHTSQPVAKTTAAP TTRRPTTAPSRVPGRRPAPQQPPKP
CDSQPCFHGGTCQDWALGGGFTCSCPAGRGGAVCEKVLGAPVPAFEGRSFLAFFTLRAYHTLRLALEFRALEPQG
LLLYNGNARGKDFLALALLDGRVQLRFD TGSGPAVLTS AVPVEPGQWHRLELSRHWRRTLSVDGETPVLGESPS
GTDGLNLD TDLFVGGVPEDQAAVALERTFVGAGLRGCIRLLDVNNQRLELGIGPGAATRGSGVGKCGDHPCLPNP
CHGGAPCQNL EAGRFHCQCPPGRVGPTCADEKSPCQPNPCHGAAPCRVLP EGGAQCECPLGREGTFCQTASGQDG
SGPFLADFN GF SHLELRGLHTFARDLGEKMALEV VFLARGPSGLLLYNGQKT DGK GDFVSLALRDRRLEFRYDLG
KGA AVIRSREPVT LGAWTRVSLERNRKGALRVGDGPRVLGESPVPHTVLNLKEPLYVGGAPDFSKLARAAVSS
GFDGAIQLVSLGGRQLLTPEHVL RQVDVTSFAGHPCTRASGHPCLNGASCVPREAA YVCLCPGGFSGP HCEKGLV
EKSAGDVDTLAFDGRFTVEYLN AVTESEKALQSNHFELSLRTEATQGLVLWSGKATERADYVALAIVDGHQLSY
NLGSQPVVLRSTVPVNTNRWL RVVAHREQREGSLQVGNEAPVTGSSPLGATQLD TDGALWLGLPELPVGPALPK
AYGTG FVGCLRDVVVGRHPLHLLLEDAVTKPELRPCPTP

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FIGURE 6

ACAGAGACCCCGAGTTCTACAAGTTCCTGCAGGAGAATGACCAGAGCCTGCTAAACTTCAGCGACTCGGACAGCT
CTGAGGAGGAAGAGGGGCGTTCCACTCCCTGCCAGATGTGCTGGAGGAAGCCAGTGAGGAGGAGGATGGAGCGG
AGGAAGGAGAAGATGGGGACAGAGTCCCCAGAGGGCTGAAGGGGAAGAATTCTGTTCTGTGACCGTCGCCA
TGGTTGAGAGATGGAAGCAGGCAGCAAAGCAACGCCTCACTCCAAAGCTGTTCCATGAAGTGGTACAGGCGTTCC
GAGCAGCTGTGGCCACCACCCGAGGGGACCAGGAAAGTGCTGAGGCCAACAAATTCCAGGTACAGGACAGTGCTG
CATTCAATGCTCTGGTTACCTTCTGCATCAGAGACCTCATTGGCTGTCTCCAGAAGCTGCTGTTTGAAAGGTGG
CAAAGGATAGCAGCAGGATGCTGCAGCCGTCCAGCAGCCCGCTCTGGGGGAAGCTTCGTGTGGACATCAAGGCTT
ACCTGGGCTCGGCCATACAGCTGGTGTCTGTCTGTGCGGAGACGACGGTGTGGCGGCCGTGCTGCGGCACATCA
GCGTGCTGGTGCCCTGCTTCCCTGACCTTCCCCAAGCAGTGCCCGCATGCTGCTCAAGAGAATGGTGATCGTATGGA
GCACTGGGGAAGAGTCTCTGCGGGTGCTGGCTTTTCTGGTCTCAGCAGAGTCTGCCGGCACAAGAAGGACACTT
TCCTTGGCCCCGTCTCAAGCAAATGTACATCACGTATGTGAGGAAGTCAAGTTCACCTCGCCTGGTGCCCTCC
CCTTCATCAGTTTCATGCAGTGGACCTTGACGGAGCTGCTGGCCCTGGAGCCGGGTGTGGCCTACCAGCACGCCT
TCCTCTACATCCGCCAGCTCGCCATACACCTGCGCAACGCCATGACCCTCGCAAGAAGGAAACATACCAGTCTG
TGTAACTGGCAGTATGTGCACTGCCTCTTCTGTGGTGCCGGGTCTGAGCACTGCGGGCCCCAGCGAAGCCC
TCCAGCCCTTGGTCTACCCCCCTTGCCCAAGTCATCATTGGCTGTATCAAGCTCATCCCCACTGCCCGCTTCTACC
CGCTGCGAATGCACTGCATCCGTGCCCTGACGCTGCTCTCGGGGAGCTCGGGGGCCTTCATCCCGGTGCTGCCTT
TCATCCTGGAGATGTTCCAGCAGGTCGACTTCAACAGGAAGCCAGGGCGCATGAGCTCCAAGCCCCATCAACTTCT
CCGTGATCCTGAAGCTGTCCAATGTCAACCTGCAGGAGAAGGCGTACCGGGACGGCCTGGTGAGCAGCTGTACG
ACCTCACCTGGAGTACCTGCACAGCCAGGCACACTGCATCGGCTTCCCGGAGCTGGTGCTGCCTGTGGTCTCTGC
AGCTGAAGTCGTTTCTCCGGGAGTGCAAGGTGGCCAACTACTGCCGGCAGGTGCAGCAGCTGCTTGGAAGGTTT
AGGAGAACTCGGCATACATCTGCAGCCGCCGCCAGAGGGTTTCTTCCGGCTCTCTGAGCAGCAGGCAGTGGAAG
CCTGGGAGAAGCTGACCCGGGAAGAGGGGACACCCCTGACCTTGTAACAGCCACTGGCGCAAGCTGCGTGACC
GGGAGATCCAGCTGGAGATCAGTGGCAAAGAGCGGCTGGAAGACCTGAACTTCCCTGAGATCAAACGAAGGAAGA
TGGCTGACAGGAAGGATGAGGACAGGAAGCAATTTAAAGACCTCTTTGACCTGAACAGCTCTGAAGAGGACGACA
CCGAGGGATTCTCGGAGAGAGGGATACTGAGGCCCTGAGCACTCGGCATGGGGTGGAAGACGATGAAGAGGACG
AGGAGGAGGGCGAGGAGGACAGCAGCAACTCGGAGGATGGAGACCCAGACGCAGAGGCGGGGCTGGCCCCCTGGGG
AGCTGCAGCAGCTGGCCCAGGGGCCGGAGGACGAGCTGGAGGATCTGCAGCTCTCAGAGGACGACTGAGGCAGCC
CATCTGGGGGGCTGTAGGGGCTGCCGGGCTGGTGCCAGTGTTCACCTCCCTGGCAGTCAGGCCTAGAGGCT
GGCGTCTGTGCAATTGGGGGAGGCACTAGACACGGGACAGGCTTTATTATTTATTTTTCAGCATGAAAGACCAAA
CGTATCGAGAGCTGGGCTGGGCTGGGCTGGTGTGGCTGCTGAAGCCCCACAGCTGTGGGCTGCTGAAGTCAGCTC
CGCGGGGGAGCTGACCCTGACGTACAGCAGACCGAGACCAGTCCCAGTTCCAGGGGGAGGCCTGCAGGCCCTGGC
CCCTTCCACCACCTCTGCCCTCCGTCTGCAGACCTCGTCCATCTGCACCAGGCTCTGCCTTCACTCCCCCAAGTC
TTTGAAAATTTGTTCTTTTCTTTGAAGTCACATTTTCTTTTAAATTTTTTGTGTTTGCATCCGAAACCGAAAGA
AATAAAGCGGTGGGAGGCAGGGCCATTGTGTTG

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FIGURE 7

MAAAGSRKRRRLAELTVDEFLASGFDSESESESESENSPQAETREAREEAARSPDKPGGSPSASRRKGRASEHKDQLSR
LKDRDPEFYKFLQENDQSLLNFSDDSSSEEEEGPFHSLPDVLEEASEEEDGAEEGEDGDRVPRGLKGKKNSVPVT
VAMVERWKQAAKQRLTPKLFHEVVQAFRAAVATTRGDQESAEANKFQVTDAAFNALVTFCIRDILIGCLQKLLFG
KVAKDSSRMLQPSSSPLWGKLRVDIKAYLGSAIQLVSCLETTVLAAVLRHISVLVPCFLTFFPKQCRMLLKRMVI
VWSTGEESLRVLAFVLVLSRVCRHKKDTFLGPVLKQMYITYVRNCKFTSPGALPFISFMQWTLTELLALEPGVAYQ
HAFLYIRQLAIHLRNAMTTRKKETYQSVYNWQYVHCLFLWCRVLSTAGPSEALQPLVYPLAQVIIGCIKLIPTAR
FYPLRMHCIRALTLLSGSSGAFIPVLPPFILEMFQQVDFNRKPGRMSSKPINFSVILKLSNVNLQEKAYRDGLVEQ
LYDLTLEYLHSAHCIGFPELVLPVVLQKSFRLRECKVANVCYRQVQQLLGKVQENSAYICSRQRVVSFGVSEQQA
VEAWEKLTREEGTPLTLYYSHWRKLRDREIQLEISGKERLEDLNFPEIKRRKMADRKDEDKQFKDLFDLNSSEE
DDTEGFSERGILRPLSTRHGVEDDEDEEEGEEDSSNSEDDGDPDAEAGLAPGELQQLAQGPEDLEDLQLSEDD

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FIGURE 8

GTGTACGAAAGAGAAACCCGGAGGGCGCCGGGGACTGGGCGGGGTCTGCAGGGCTCAGCTGAGCCCATGAGCTC
CCAGAGCTAACCCTGAACACCCAGGCGGGCAAAGGGCTGATGTCGGTAGTCCCATCCTGGAGGGGAGGCTCT
GCGCATCTGCTCCTGGCATGGCGCTGCGGCACCTCGCCCTCCTGGCTGGCCTTCTCGTGGGAGTCGCCAGCAAGT
CCATGGAGAACACGGCCAGCTGCCGAGTGCTGTGTGGATGTGGTGGGCGTCAACGCCAGCTGCCAGGCGCAA
GTCTGTGTGGTCCAGGCTGTTACAGGCGCTGGAACGCGGACGGGAGCGCCAGCTGCGTCCGCTGTGGGAACGGAA
CCCTCCCAGCCTACAACGGCTCCGAGTGTTAGAAGCTTTGCTGGCCCGGGTGCGCCATTCCCCATGAACAGAAGCT
CAGGGACCCCCGGGCGGCCACATCCTGGGGCTCCGCGCGTGCGCCCTCCCTCTTCTGGGCACGTTCTTCATTA
GCTCCGGCCTCATCCTCTCCGTAGCTGGGTTCTTCTACCTCAAGCGCTCCAGTAAACTCCCCAGGGCCTGCTACA
GAAGAAACAAAGCTCCGGCCCTGCAGCCTGGCGAAGCCGCTGCAATGATCCCCCGCCACAGTCTCAGTACGGA
AGCCGCGCTACGTCAGGCGGGAGCGGCCCTGGACAGGGCCACGGATCCCGCTGCCTTCCCGGGGAGGCCCGTA
TCAGCAATGTCTGACCCTGGAGGCCGAGACCACGCCACGCACTTGGCGGCAGGGACCCGGAGGCCGACCCCTTGCG
GGGAACCAGCACAAAGTGTTGGCATCGCCCGGCGCCCGGGACAGTCTGGGCACAGCCTCGGCTCTGGGTCCCTC
CGCCTCCCAGCGACGGACGCCAAAGGGTCCCGGGCCGCTGAGGCTCCTCCCCACCACAGCCATCTCGTTTATCG
GACCAGGAGCAGGCATCCATGAGACCTCAGAGCTTCAGATCGAGGCCTTGGGGGGTCCGGGCCCCCCCAGGAAAC
ACGGTGAGGCCCCAGCGCCTGCAGCCAAAGCTGGCACGATCTATGGGGCAGGTGCCGCTCTGCCTAGAAAAGCCA
GGGGCTCTGCTGCCGTGCCCTCCAGAGCCACAGCGGGCAGGACTCCTCCAGCACCACCACACCCAGTGGCCCGA
GACCCCTCTGAGAACAGTGAGGCTGGTCCCTCGTGCCGTTCCAGCCGGTGCCCGGCCAGTGGGGAGGACACAGCCT
AGGAACCAGCTGCCTGAGACCAGGGTGCCCTCTGGGCTGTCTCCCGCGTGCGGAGACCCCAAGCACGCAGCCAC
CCATTTCCGGAGCTGCAGGATAGAGCTTCTCTTGATCTCTGTTTTTAAGCAGAAATTCAATTGTGCTGAAAAGTC
CTCCAGAGCTCTGTGGCCCCGCTCGGATCCGCTGGACCCCATGCCTGGCTGATCCCTGCCACGTGGGGCAGGC
CCACATCTAACCCCCACAAGTCACTGCCTCACTGCACCTGCCAAGGCTGCCCTGGCGCTGAGTCTTGGGGTCCCT
CCCGGAGTTCTTGGGAGAAAGGCGCCGTCGTGGCCGCTCCCGCACGCCAGGCCCGGGCTCCACCGTGGGTCTCA
GACGCCCTGCGGCACCGGCACCGTCTGCTTTAGCATGGGACCCCATCTGAGGGGTGGCCTGGCCTTCGGGGTCC
CCACGCTCCTTTGCGAAGTCCACTGTGGGTGCCATCATGGTCTCCGGGACCTGGGCCAGCGGGAACGTGGGGGCA
CTGGGTGTGCTGATATAAAGTCGGCATTACTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 9

MALRHLALLAGLLVGVASKSMентаQLPECCVDVVGVNASCPGASLCGPGCYRRWNADGSASCVRCGNGTLPAYN
GSECRSFAGPGAPFFPMNRSSGTPGRPHPGAPRVAASLFLGTFFISSGLILSVAGFFYLKRSSKLPRACYRRNKAP
ALQPGEEAAAMIPPPQSSVRKPRYVRRERPLDRATDPAAFPGEARISNV

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FIGURE 10

AAAAAAAAAAAAAAAAACCGGCTCGCGGCGCGTGGAGGCTGCTCCCAGCCGCGCGAGTCAGACTCGGGTGGGGG
TCCCGGCGGCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCCGCCGCCCTTTGCCGCCGCGCAGCCCCGGGGCCGAGGGCGGCGGGGACCGCGGCTTGGGAGA
CCGGCCGGCGCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCCTGGAGCGCGCCGCCAAGGCGGCGCGCA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCCGCCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCGGCGAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCCGAGGCCCGGGCGCGGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCCGAGCACCGTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTTGGGGTCTACTCAGC
CAAGATGCCACGCTTGTCGCCGGCCGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGAGGCGCTGCGGCACCCATCCAGGTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGC
GCTGGAGGGTGTGTGCTCAGTCCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCGCAGCCTGTACAGGAACATCCTGATGTACGGGCCACCAGGCACCGGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATAACAGCCGCGCGGCCCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCCTGTACCG
CACGGGCCAGCACAGCAACAAGTTTCATGCTGGTCTTGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCCTGAAGCTGGCCCAGTTTGACTACGGGAGGAA
GTGCTCGGAGGTGCTCGGCTGACGGAGGGCATGTGCGGCGGGGAGATCGCTCAGCTGGCCGTGTCCTGGCAGGC
CACGGCGTATGCCTCCGAGGACGGGGTCTTGACCGAGGCCATGATGGACACCCGCGTGCAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCCTGGGCGTGGGGACGAGCCTTCCCCATCCTGAGTCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCACCCCTGCCTTGCCGGCCCCCTGCACATTTAG
GATATGCTCCTGGGTGGGACTGGGCTGTGCCCAGGGCCTCTGTCCCCAGGATGTCTTGTTGGTGCGGGTTCGGCC
GTTCTGCCCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGAGGCTTTGCACCCAGCCCCCTGCCAGGCC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCACAGGGGAGGGTGAGGCTTTGCACCCAGCCCCCTGCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCCGGGGCAGCAGGAGCCAGGCAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCCTGCTTCCCCCTGT
GGCCGGCATGCCCCGATCTTTCACACACTGGTGACCCTGAGAGAGGAGGGAGGAGGAACCTGGCGGGGTGTCT
GAGGCCGCACTGTGAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCACAG
GTGCCTCATT

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FIGURE 11

MSWLFGINKGPKGEGAGPPPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAACAARELEHSRYAKDAL
NLAQMQEQTLLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQARAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEESVQKQEAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLES
IRTAGTLFGEGFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAF LRKRATEKISED LRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPQGEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQKMCWLKAEGPGRGDEPSPS

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FIGURE 12

ATCAGTTCTCGCCCGTCTGGGCGTGGGCGTGGCCGGCGTGGCTGCTCGGGACCACCCGAACCCGCGGCCATGGCC
CCGGCCGCGCCAGCCCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACCGCGGTGGGCTGCGGAGC
GCGGCGGGCGGCGCCCTGCACAGCCTGGCGGGTGCAGGAAGTGGCTGGAGTGGAGGAAGGAGGTTGAGCTGCTC
TCAGATGTGGCCTACTTTGGCCTCACCACACTTGCAGGCTACCAGACCCTGGGGGAGGAGTACGTCAGCATCATC
CAGGTGGACCCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCGTGCTGGTGACGCTGCATGCCGTCCCTG
CCCTACCTGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCTGCAGGCTGACCCCGACAGTGGGCGACCCTTG
CAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGGGCGCGGCGCTGGATGCGTCACCACACGGCCACCCTG
ACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGGTCTTCGTCTCAGACAGGGCCTCGCCTGCCTCCAGCGGCTA
CATGTTGCCTGGTTTTACATCCACGGTGTCTTCTACCACCTGGCCAAGAGGCTCACGGGGATCAGTACCTCCGT
GTCCGCAGCCTGCCCGGAGAGGACCTGAGGGCCCGTGTTAGCTACAGGCTGCTGGGGGTCTCTCACTGCTGCAC
CTGGTGCTGTCCATGGGGCTGCAGCTGTACGGTTTCAGGCAGCGGCAGCGAGCCAGGAAGGAGTGGAGGCTGCAC
CGCGGCCTGTCTACCGCAGGGCCTCCTTGGAGGAGAGAGCCGTTTCCAGAAACCCCTGTGCACCCTGTGCCTG
GAGGAGCGCAGGCACCCAACAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGCATCACCGCGTGGTGCAGC
AGCAAGGCGGAGTGTCCCTCTGCCGGGAGAAAGTTCCCTCCCCAGAAGCTCATCTACCTTCGGCACTACCGCTTGA

GCCGGCGCCCGGTGGGCCTGGACACAGATGACCTCTACGGGAGTCTGAACGCCAAGATTTAGTCTCAGGATTAA
CCTTGCTTGACAGAAGTTAGAACACTCTCAGTTTTTTGTATGTAAGATACTAACCTAGCCACCCTGGGAGAGA
ACAGAAAGCTGTCCCTGGCTGCGCTTTCTCAGCCCTGGGAGGGGCGCCTGAACCCAGAACATTTCCCTAACCCCA
ACCTGGTAGGACTCAGCCACTTCTTCAGGAATTTCACTTATTTGGACGGGATTTTAGGTTTCCCTCCCTTCCCCA
AACCATACAGTTGAGAAGTAATTCAGAAGTAGGCCAGAAGACACTTTATTCGTTTATATTGTGAGAAAACAGCCC
CATCAGGCTTGTGTTAAGGCAATGGACTGAATGAGTGCCTGCTGGGTGGGGTGGGGCACGGAGGCTGGCGGGTTG
CTTCAGCCAGTGCACTGAGAACAGCAGCCCCACGGCCCCATGGGAGGCGGCGCTGCTCTCCCCGAGGGCGGCTGG
GCAGAGCACATCCCCAGGACTTGATGACCACACGGGGCAGAGAGAAACCAACCAAGGCCAGCACCTCCGTCGGA
AGCATTGGCACACACACCTTCAATACACGTCAAGGTCGCTTCCAGTTTTAGAAAACAGAAATCTGCATCTCAGC
CTGAGACGCACAGAGAGGTCTCTTCTGACCCAGACGCACTCACGAGCCAGGTCCTGGGGGTATGGGGGCTGCCA
GGGGCGCCCGAGCCCTCTCCTGGGGGGCTGCTGGGCAGGCGACCTGCTGACCCACGGTCACTGCTGTGTTTACG
CCCTCAGCTCGGCCCCAGCCTATTTCCGCGCTCCATTTGATGTTTCCAGGTTTTCAAACCTGCATTTAACCTGCG
CCAGAGAGTTCACCGTAGGCATCTTTAATAAACTAACTCCAGCAAAAAAAAAAAAAA

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FIGURE 13

MAPAAASPPEVIRAAQKDEYYRGGLRSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLGEEYVS
IIQVDPSRIHVPSSLRRGVLVTLHAVLPYLLDKALLPLEQELQADPDSEGRPLQSLGPGGRGCSGARRWMRHHTA
TLTEQQRRALLRAVFVLRQGLACLQRLHVAWFYIHGVFYHLAKRLTGITYLRVRSPLGEDLRARVSYRLLGVISL
LHLVLSMGLQLYGFRQQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCEERRHPTATPCGHLFCWECITAW
CSSKAECPLCREKFPPQKLIYLRHYR

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FIGURE 14

GGGCGGCGAGTGGGGAGCGGGGCCGGGAGTGGAGCAGCCGCCGCGGGGACTGGACCGAGCCTCGCCGGCGCGC
ACCTGCCCCGAGCGCCCCGCGGAGCGCGCAGCGCGGCCCGAGCGCGACGACCTGCCGAGCGGCGCCGAGGCGGCG
GTGTGGGCGCGTCAGGCCGCGACGAGGGCGCTGAGACAAATTTACATGTATTGGAGACCAGACCAGAAAGCCCTTC
TGAATTAAGATCTCACATTCTTGAAGGTGGCATTGAAGAGCACTAAGATCGGAAGATGAGTGAGCTTGACCAGTT
ACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTTCGAGACGCCAGGAAAGCATGTGCAGATGCAACTCTCTCTCA
GATCACAAACAACATCGACCCAGTGGGAAGAATCCAATGCGCACGAGGAGGACACTGCGGGGGCACCTGGCCAA
GATCTACGCCATGCACTGGGGCACAGACTCCAGGCTTCTCGTCAGTGCCTCGCAGGATGGTAAACTTATCATCTG
GGACAGCTACACCACCAACAAGGTCCAGGCCATCCCTCTGCGCTCCTCCTGGGTCATGACCTGTGCATATGCCCC
TTCTGGGAACATATGTGGCTGCGGTGGCCTGGATAACATTTGCTCCATTTACAATCTGAAAACCTCGTGAGGGGAA
CGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGGTTACCTGTCTCTGCTGCCGATTCTTGATGACAATCAGAT
CGTACCAGCTCTGGAGACACCAGTGTGCCCTGTGGGACATCGAGACCGGCCAGCAGACGACCACGTTTACCGG
ACACACTGGAGATGTCATGAGCCTTTCTCTGTCTCTGACACCAGACTGTTTCGTCTCTGGTGCTTGTGATGCTTC
AGCCAAACTCTGGGATGTGCGAGAAGGCATGTGCCGGCAGACCTTCACTGGCCACGAGTCTGACATCAATGCCAT
TTGCTTCTTTCCAAATGGCAATGCATTGGCCACTGGCTCAGACGACGCCACCTGCAGGCTGTTTGACCTTCGTGC
TGACCAGGAGCTCATGACTTACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCCTTCTCCAAGAGCGG
GCGCTCCTCCTTGCTGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGT
CTTGGCTGGGCATGACAACCGCGTCAGCTGCCTGGGCGTGACTGACGATGGCATGGCTGTGGCGACAGGGTCTCTG
GGATAGCTTCTCAAGATCTGGAACCTAACGCCAGTAGCATGTGGATGCCATGGAGACTGGAAGACCATTCCAACCT
TGGACGCGTTACCATGAGAGCATATCCTATCCAACCGTACTAACGTGGACACCCCTACACCTCCCCCTCAGAACTTC
AAAAGGGCAAGATCTTTTTTCTTCACTTATTGCTGAAACCAAGAGCACAATTCCCATTGAGAGAAAGATCTCTG
TGCTGTAAACTAAAACAAATTGTGCATTCTTCCGGGGCCATCGTCTTTGTTTTCTTTTTTGTCTTGAATGAATT
TTAAAAGGAAATATATAATAAAAATGTTAACAGAAAGGTAAACTTGAGTGTAATTGTCAGACAGACACACTTTTC
CACCAGTGTATTTGAATTTTAGACCAGTGACCCTGTTTTGTGGCATTTCATGCAAAACATGCTGAGGGCTTTGTTC
ATCTGGTTCATCGTGTCCAAATTTTCACTCATGTTTGTAGCAAGATTTTGAAGCATTCATATTTCTTTTTTAAAT
GTATTCCTTTGTGTTCAACAGTTAATCAAACCAGAGAGTCTAGGGCAGCCTCTCTGATGTTGTCAATGATGTAA
ATTCACTCCCTGGTTTTTAAATTTTCTGTCTGATGTACAGATCATTGTTGCACACAAACGTGGCATAGAAAAGAA
CATGTTTCAAGGCCATGGGGCCAAGCACATGCGGGGACGGTCTCAAATGCGTGATCAGAGAATCCTTCACCTTTG
CTGAAAAGTGAGCTCAGATCCAGCACCATGTTCTCCTGACCCATCCTGTCTATCTTCTCAGTTGAGTTTTTAAT
CTCACTTTGGGTTTTCTTGTGAAGTTGGAGGGAAGTTTTATAATAGCCTAACACTACCCACCCCCAACTAGGAGG
AACCTCTGTTTTTCAAGAGAGATGCCTGTCTGTGCTTGGATAGTCAGTCAATTATTTGTGTATGAAACAATGTAC
AAATCAATGTTTTGAAAATAATGATCTCAGACTTTCTAAGTTAAATTTTAAAAATTTTGATTGTTTGCCATATTG
GGTGGGTTTACTCTTAGAATCGCATGCTGTAGAAATGCTCAAAGTGCATATGGGACTCAGTCCCTTAGGTGTTCT
TTTTCTTTTAAGAAATAACCTCTTACAGTTGTAACCATTTGCGGCTCTGTCCACTTCTCGTTGCTGCTCTGTGGCA
CATATCGGAAGCAGTACAGCGCGCGGCTCTACACGCTTGGGTAGCGGGATAAGTCACTGTTTTCTTTATTTCTTT
AAAAAAAAAAAAAGTTCTGTGCAAACGACTGCTGTTGGATTCTGAGGGTGGGGAGGGAGAGAGAGGGGAGGAGAG
GGAGTGAAGAGCCTGCCCTCCTATATGGATTCTTCAGGGCCCTCCACATCTGAGGTGGCTCATTCCCATCACACA
CAGATTGTCTGGTGTTCAATTTCAAGGCCAGTGTTCAGCAGCAGCGTTTGAAAGCAGGTTCTGTGGGACCCCCC
GCCCCGCCCCCGCACTCCTTCATAGCAGCAGTAGTGGCTTCTCCATCCTGTTTTCTGCAACATTCTATACAAA
CTGTGCTGTGACCTTGCGGTAGGCTGGATCTGGCAAAGAGAATACAAATGAAACCCCTTCTTTCTTTTCCGTC
CAACAACCTCTGTAGAGCTCTCTGCACCCTTACCCCTTTCCACCTTTTGTATTTAATTTTAAAGTCAGTGTACTGC
AAGGAAGCTGGATGCAAGATAGATACTATATTAACTGTACTGTTATTTAAGATGTAATAAAGCAGTTTGACATG

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FIGURE 15

ATCAAACCACCCAGCAAATGTCTCGGAAAGAAAAAGTTTCATCACAGAAAAGATGAAAAGAGAAAAGAAAAATGT
AGGCATCATAGCCATTTCAGCAGAAGGGGGGAAGCATGCTAGAGTGAAAGAAAGAGAGCACGAACGTCGGAAACGA
CATCGAGAAGAACAGGATAAAGCTCGCCGGGAATCGGAAAGACAGAAGAGAAGGGAAATGGCAAGGGAGCATTC
AGGAGAGAAAGGGACCGCTTGGAGCAGTTAGAAAGGAAGCGGGAGCGGGAGCGCAAGATGCGGGAGCAGCAGAAG
GAGCAGCAGTCAAGAAGATGACCTTCAGCGAGCACCCCTACAACAACCTCCGCAAGCGCTTCGGGGCTCTGCTCT
CAGACCAGGGCTTCGACCTCATGAACAAGTTCCTGACCTACTTCCCCGGGAGGAGGATCAGCGCTGAGGACGGCC
TCAAGCATGAGTATTTCCGCGAGACCCCCCTCCCCATCGACCCCTCCATGTTCCCCACGTGGCCCGCCAAGAGCG
AGCAGCAGCGTGTGAAGCGGGGCACCAGCCCGAGGCCCCCTGAGGGAGGCCTGGGCTACAGCCAGCTGGGTGACG
ACGACCTGAAGGAGACGGGCTTCCACCTTACCACCACGAACCAGGGGGCCTCTGCCGCGGGCCCCGGCTTCAGCC
TCAAGTTCTGAAGGTCAGAGTGGACCCCGTCATGGGG

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FIGURE 16

MGKTEEKGNKGAFQERKGPLGAVRKEAGAGAQQDAGAAEGAAVKKMTFSEHPYNNLRKRFGALLSDQGFDLMNKF
LTYFPGRRISAEDGLKHEYFRETPLPIDPSMFFTWPAKSEQQRVKRGTSRPPEGGLGYSQLGDDDLKETGFHLT
TTNQGASAAGPGFSLKF

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FIGURE 17

TCGCGCGGAAGCCGCGGTAGGGTGGGAACCCAAGCGGGAGAGCCGCGGGATTTGCGGCCGCCGCC**ATG**CCGTCGT
CCCCGCTGCGGGTGGCGGTGGTGTGCTCGAGCAACCAGAACCGGAGCATGGAGGCGCACAAATCCTCAGCAAAAC
GGGGATTCAGCGTCCGATCCTTTGGAACAGGGACTCACGTGAAGCTTCCAGGACCAGCTCCCGACAAGCCCAATG
TTTATGATTTCAAACACATATGACCAGATGTACAATGATCTTCTTAGGAAAGACAAAGAACTCTATACACAGA
ATGGGATTTTACATATGCTGGACAGAAATAAGAGAATCAAGCCCCGGCCAGAAAGATTCCAGAACTGCAAAGACC
TGTTTGATCTGATCCTCACTTGCGAAGAGAGAGTGTATGACCAGGTGGTGGGAAGATCTGAATTCCAGAGAACAGG
AGACCTGCCAGCCCGTGCACGTGGTCAATGTGGACATCCAGGACAACCACGAGGAGGCCACCCTGGGGGCGTTTC
TCATCTGTGAGCTCTGCCAGTGTATCCAGCACACGGAAGACATGGAGAACGAGATCGACGAGCTGCTGCAGGAGT
TCGAGGAGAAGAGTGGCCGCACCTTTCTGCACACCGTCTGCTTCTAC**TGAG**CCCCAGCGCCCGCATGGAGCCGCCT
CTGGAGCTTCCTGTTGTTTCATACTTTTTCTTTCCTGACATTTGTTTTTACTTACAGGTGTTCTGCTGGTGACGGT
AGCATTACCCAAATAAACTGTGCATATGAAATGGGAGAGGAGATGCCAAAACGCCAGATGAAAGCAATCAAGTTT
CTTCTTTTCCACTTTTACTTATGAGCGGGATATTGATTACAAAGTTTTTCTTCTTTAACCAAAAAGGAAAGACAA
CGGTTTGTGTGCACTTCCCGACATACCTGTGTCTTCGTGTGCCTGCCTTCCCTCCCTCCTCCCCACCGGGCCGGA
CTGTACAGAGCCCTGCTGCGGCGTGTTAGGAATGACCTGGAATTGTCAATAAACAGATGCTGCTGTCAAAAAAAA
AAAAAAA

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FIGURE 18

MPSSPLRVAVVCSSNQNRSM EAHNILSKRGFSVRSFGTGTHVKLP GPAPDKPNVYDFKTTYDQMYNDLLRKDKEL
YTQNGILHMLDRNKRIKPRPERFQNC KDLFDLILTCEERVYDQVVEDLNSREQETCQPVHVVNVDIQDNHEEATL
GAFLICELCQCIQHTEDMENEIDELLQEFEEKSGRTFLHTVCFY

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FIGURE 19

CCTGGCCACCGGCTCGCGGCGCGTGGAGGCTGCTCCCAGCCGCGCCCGAGTCAGACTCGGGTGGGGGTCCCGGCG
GCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCGTTAACAAGGGCCCCAAGGGTGAAGGCGCGG
GGCCGCGCGCCCTTTGCCGCGCGCGAGCCCCGGGGCCGAGGGCGGCGGGGACCGCGGTTTGGGAGACCGGCGCG
CGCCCAAGGACAAATGGAGCAACTTCGACCCCCACCGGCCTGGAGCGCGCCGCCAAGGCGGCGCGCGAGCTGGAGC
ACTCGCGTTACGCCAAGGAGGCCCTGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCA
AGCTCAAAGAGTATGAGGCCGCCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGAGAGGAGGA
AGACCCTGAGCGAGGAGACCCGGCAGCACCCAGGCCAGGGCCCAGTATCAAGACAAGCTGGCCCGGCAGCGCTACG
AGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCAGAAGCAGG
AAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGTGGAGACCG
AGGCCCCGGGCGCGCGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAAGGCGTCCG
AGCACCGTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGCCTTTGTGA
CAGACCGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTGCGGGTCTACTCAGCCAAGAATG
CGACAGCCGTCACTGGCCGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCTAGTGAGGGAGACGTCCCGCATCA
CGGTGCTGGAGGCGCTGCGGCACCCCATCCAGGTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGTGCTGGAGG
GTGTTGTGCTTAGTCCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACCAGGAACACCAAGAAGAACC
GGGCGCTGTACAGGCACATCCTGCTGTATGGGCCACCAGGCACCGGGAAGACGCTGTTTGCCAAGAACTCGCCC
TGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGTGACCGCCA
TGCACAAGCTCTTTGACTGGGCCAATACCAGCCGGCGCGGCTCCTGCTCTTCATGGATGAAGCAGACGCCTTCC
TTCGGAAGCGAGCCACTGAGGAGATAAGCAAGGACCTCAGAGCCACACTGAACGCCTTCTGTACCACATGGGCC
AACACAGCAACAAATTCATGCTGGTCTCTGGCCAGCAATCTGCCTGAGCAGTTCGACTGTGCCATCAACAGCCGCA
TTGACGTGATGGTCCACTTCGACCTGCCGCGAGCAGGAGGAGCGGGAGCGCCTGGTGAGACTGCATTTTGACAACT
GTGTTCTTAAGCCGGCCACAGAAGGAAAACGGCGCCTGAAGCTGGCCAGTTTGACTACGGGAGGAAGTGCTCGG
AGGTGCTCGGCTGACGGAGGGCATGTGCGGCGGGGAGATCGCTCAGCTGGCCGTGTCTGGCAGGCCACGGCAT
ATGCCTCCAAGGACGGGGTCTCACTGAGGCCATGATGGACGCCTGTGTGCAAGATGCTGTCCAGCAGTACCGAC
AGAAGATGCGCTGGCTGAAGGCGGAGGGGCTGGGCGCGGGGTCGAGCACCCCTATCCGGAGTCCAAGGCGAGA
CCCTCACCTCATGGAGCCTGGCCACGGACCCCTCCTACCCCTGCCTTGCCGGCCCCCTGCACATTTAGGATATGCT
CCTGGATGGGGACTGGGCTGTGCCAGGGCCTCTGTCCCCCAGGATGTCTTGTTGGTGGCGGTGCGCCGTTCTGCC
CCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGAGGCTCCTTCTGCCCCCTCGAGACACTCTTGG
GAGATGCATTTTCCGTCTGGCTCACAGGGGGAGGGTGAGGCTTTGTACCCAGCCCTGCCAGGCCACTGTGAG
GGTGGGTGCTGGCTGAGCCCCCTGGGGCAGAAGGAGTGGGGCAGGCGGGGTCTTTGTTCTCGGCTCCACAGCAGA
GCCAGGTGAGGGGGGCGCTGCCAGGACTAGACAGAAGTGGGGCGGC

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FIGURE 20

ATGAGGCTGCAGAGTGATGTGGGGGCCAGCGGTGACTTCATGACCACACTGCGCCCAGGTGTAAGAGGGCACGCT
TCTGCCCAGGCATCGTCCATGGAAGACACGCAGTCGGCCACTGCAGCCTCGGTCTGGGTGCCCTGGGGCTGGGT
CACTGGGGGGCCACAGGCCACACTGAGAGACCACAGTCCTGGCATGCCATGCAGCTCCCTGTCCCCAGAGGCCATG
TCAAAGGACGCCCTGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCAAGCTCAAACAA
CTTGTC AATGAGGATTTACGGAAGCAGGAGGAGTCCGTGCAGAAGCACCATCAGACCTTCTTGAGTCCATCAGG
GCGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGCCTTTGTGACAGACCGGGACAAAGTGACAGCCACGGTGGCT
GGGCTGACGCTGCTGGCTGTGCGGGTCTACTCAGCCAAGAATGCGACAGCCGTCACTGGCCGCTACATCGAGGCT
CGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTCCCGCATCACGGTGCTTGAGGCGCTGCGGCACCCCATCCAG
CAGGTCAGCCGGCGGCTCCTCAGTCGACCCCAGGACGTGCTGGAGGGTGTTGTGCTTAGTCCCAGCCTGGAAGCA
CGGGTGCGCGACATCGCCATAATGACAAGGAACATCAAGAAGAACCGGGGCCTGTACAGGCACATCCTGCTGTAC
GGGCCACCAGGCACCGGGAAGACGCTGTTTGCCAAGAACTCGCCCTGCACTCAGGCATGGAATACGCCATCATG
ACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGTGACCGCCATGCACAAGCTCTTTGACTGGGCCAATACC
AGCCGGCGCGGCCTCCTGCTCTTTGTGGATGAAGCGGACGCCTTCCTTCGGAAGCGAGCCACTGAGAAGATAAGC
GAGGACCTCAGGGCCACACTGAACGCCTTCCTGTACCGCACGGGCCAGCACAGCAACAAATTCATGCTGATCCTG
GCCAGCTGCCACCCCGAGCAGTTCGACTGGGCCATCAATGCCTGCATCGACGTGATGGTCCACTTCGACCTGCCA
GGGCAGGAGGAGCGGGCGCGCCTGGGATTGGAGGGAGAGGCTCCTCATGAGACCCCATGTGCGGACTAGAGGGA
GAGGCTCCTCATGGTCCACTGCTGGCTTCTGGCCTGGCCTCCCTGCAGCTGCCACACCCGGCCCTGGAGCCTCGT
GGTGTGGGGCGCGGCTCTTGCTTCCTGCTGCACATGTGCCTTGAGGCTGTCAGGCTCCCTGTTGCTGGCGGGCCC
CGGTTTCTGAGTCCTTCTGTGCACCTGACCCAAATCCCTGCTGTGCGCAGTGACGACAAAAGCTGCTCTGTTCCA
AAGAGAGCCTGGTTCTCCCCTGCCGACCCCTCCACTGCCGCCTGCTCCATGCTAGACCAGCTTTCCGGGCGTCTG
AAGCTGGCCCAGTTTGACTACGGGAGGAAGTGCTTAGAGATCGCTCGGCTGACAGAGGGCATGTGATGCCGGAAG
ATCGCACAGCTGGCCGTGTCCTGGCAGGCCACGGCGTATGCCTCCAAGGACGGGGTCTGACCGAGGCCATGATG
GACGCTGCGTGCAAGACTTTGTCCAGCAGCACCAGCAGATGATGCGCTGGCTGAAGGGGGAGAGGCCTGGGCCC
GAGGACGAGCAACCCTCATCC**TGA**

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FIGURE 21

MRLQSDVGASGDFMTTLRPGVRGHASQAASSMEDTQSATAASVLGALGLGHWGPQATLRDHSPGMPCSSLSPEAM
SKDALNLAQMQEQTLLQLEQQSKLKQLVNEDLRKQEEVQKHHQTFLESIRAAGTLFGEGFRAFVTDRDKVTATVA
GLTLLAVGVYSAKNATAVTGRYIEARLGKPSLVRETSRITVLEALRHP IQQVSRLLSRPQDVLEGVVLSPSLEA
RVRDIAIMTRNIKKNRGLYRHILLYGPPGTGKTLFAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANT
SRRGLLLFVDEADAFLRKRATEKISEDLRATLNAFLYRTGQHSNKFMLILASCHPEQFDWAINACIDVMVHFDLP
GQEERARLGLEGEAPHETPMSGLEGEAPHGPLLASGLASLQLPHPALEPRGVGRGSCFLLHMCLEAVRLPVAGGP
RFLSPSVHLTQIPAVASDDKSCSVPKRAWFSPADPSTAACSMQLDQLSGRLKLAQFDYGRKCLEIARLTEGMSCRK
IAQLAVSWQATAYASKDGVLTEAMMDACVQDFVQQHQQMMRWLKGPERPGPEDEQPSS

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FIGURE 22

AAGTGCCCGAGGGCGGCCGCAGAACGGTCAATTTGAGCCGCGTCGAGCTCCCCTGGGACCTGTGGCCGCCGCCCA
CAGACCATGCTCCTGGGGCGCCTGACTTCCCAGCTGTTGAGGGCCGTTTCCTTGGGCAGGCGGCCGCCCGCCTTGG
CCCGTCTCTGGAGTGCTGGGCAGCCGGGTCTGCGGGCCCTTTACAGCACATCGCCGGCCGGCCAGGTAGGGCG
GCCTCTCTCCCTCGCAAGGGGGCCCAGCTGGAGCTGGAGGAGATGCTGGTCCCCAGGAAGATGTCCGTCAGCCCC
CTGGAGAGCTGGCTCACGGCCCGCTGCTTCCTGCCCAGACTGGATACCGGGACCGCAGGGACTGTGGCTCCACCG
CAATCCTACCAGTGTCGCCCCAGCCAGATAGGGGAAGGGGCCGAGCAGGGGGATGAAGGCGTCGCGGATGCGCCT
CAAATTCAGTGCAAAAACGTGCTGAAGATCCGCCGGCGGAAGATGAACCACCACAAGTACCGGAAGCTGGTGAAG
AAGACGCGGTTCTGCGGAGGAAGGTCCAGGAGGGACGCCTGAGACGCAAGCAGATCAAGTTCGAGAAAGACCTG
AGGCGCATCTGGCTGAAGGCGGGGCTAAAGGAAGCCCCGAAGGCTGGCAGACCCCCAAGATCTACCTGCGGGGC
AAATTGAGTCTGGCGCCGCCCTTCCCGCCCGTTGCTGCTGTGATCCGTAGTAATAAATTCTCAGAGGACTCAGCCT
TTAA

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FIGURE 23

MLLGRLTSQLLRAVPWAGGRPPWPVSGVLGSRVCGPLYSTSPAGP GRAASLPRKGAQLELEEMLVPRKMSVSPLE
SWLTARCF LPRLD TGTAGTVAPPQSYQCPPSQIGEGAEQGDEGVADAPQIQCKNVLKIRRRKMNHK YRKLVKKT
RFLRRKVQEGRLRRKQIKFEKDLRRIWLKAGLKEAPEGWQTPKIYLRGK

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FIGURE 24

GCGGTGCGGGCCGGGCGGGGCGCAGGCGGGCGGGCGGGTAGCGCCCCGCGTCCGAGCCCCGGGCGGGCCCTGAG
CGCGCGGGCTCCGCGCCGCCCGCGGCCATGCGGAGACCAAGATTATCTACCACATGGACGAGGAGGAGACGCC
GTACCTGGTCAAGCTGCCCCGTGGCCCCCGAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCC
CGTGACGCCTACAAATTCTTCTTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTTGATGA
CAATGCCAAGCTTCCCTGCTTCAACGGCCGCGTGGTCTCCTGGCTGGTCTGGCTGAGGGTGTCTACTCGGATGC
GGGGTCCCAGGGCACGGACAGCCACACAGACCTGCCCCCGCCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCG
GCCCCCTCCTTCCACCCAAATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATGGT
CAGTCACCGGCGGGAGCGTGCCCGACGCCGAACCGCGAGGAGGCCGCCCGGACCAATGGGCACCCAAAGGGGAGA
CCGACGGCGGGATGTGGGGCTGCCCCAGACAGCGCTCCACCGCCCTCAGCAGCGAGCTTGAGTCCAGCAGCTT
TGTGGACTCGGACGAGGATGGCAGCACGAGCAGGCTCAGCAGCTCCACGGAGCAGAGCACCTCATCCAGACTCAT
CCGGAAGCACAAACGCCGGCGGAGGAAGCAGCGCCTTCGGCAGGCGGACCGGGCCTCCTCCTTCAGCAGCATAAC
CGACTCCACCATGTCCCTCAACATCGTCACTGTACGCTCAACATGGAAAGACATCACTTTCTGGGCATCAGCAT
CGTGGGGCAGAGCAACGACCGTGGAGACGGCGGCATCTACATTGGCTCCATCATGAAGGGCGGGGCTGTGGCCGC
TGACGGCCGCATCGAGCCCGGCAGATGTTGCTGCAGGTGAATGACGTGAACCTTTGAGAACATGAGCAATGACGA
TGCCGTGCGGGTGTGTCGGGAGATCGTTTCCAGACGGGGCCCATCAGCCTCACTGTGGCCAAGTGTGGGACCC
AACGCCCCGAAGCTACTTACCGTCCCACGGGCTGACCCGGTGCGGCCCATCGACCCCGCCGCTGGCTGTCCCA
CACGGCGGCACTGACAGGAGCCCTGCCCCGCTACGAGCTGGAAGAGGCGCCGCTGACGGTGAAGAGTGACATGAG
CGCCGTCTGTCGGGTTCATGCAGCTGCCAGACTCGGGACTGGAGATCCGCGACCGCATGTGGCTCAAGATCACCAT
CGCCAATGCCGTTCATCGGGGCGGACGTGGTGGACTGGCTGTACACACACGTGGAGGGCTTCAAGGAGCGGCGGGA
GGCCCGGAAGTACGCCAGCAGCTTGTGAAGCACGGCTTCTGCGGCACACGGTCAACAAGATCACCTTCTCCGA
GCAGTGCTACTACGTCTTCGGGGATCTCTGCAGCAATCTGCCACCCTGAACCTCAACAGTGGCTCCAGTGGGAC
TTCGGATCAGGACACGCTGGCCCCGCTGCCCCACCCGGCTGCCCCCTGGCTCTGGGTGAGGGCTACCCCTACCA
GTACCCGGGACCCCCACCTGCTTCCCGCTGCCTACCAGGACCCGGGCTTTAGCTATGGCAGCGGCAGCACCGG
GAGTCAGCAGAGTGAAGGGAGCAAAAGCAGTGGGTCCACCCGAGCAGCCGCGGGCCCCGGGCGGTGAGAAGGA
GCGTCGGGCGGCGGGAGCTGGGGGCAGTGGCAGTGAATCGGATCACACGGCACCGAGTGGGGTGGGGAGCAGCTG
GCGAGAGCGTCCGGCCGGCCAGCTCAGCCGTGGCAGCAGCCACGCAGTCAGGCCTCGGCTACCGCCCCGGGGCT
CCCCCGCCCCACCCACGACCAAGGCTTATACAGTGGTGGGGGGCCACCCGGGGGACCCCTGTCCGGGAGCT
GGCTGCCGTCCCCCGGAATTGACAGGCAGCCGCCAGTCTTCCAGAAGGCTATGGGGAACCCCTGCGAGTTCTT
CGTGGACATCATGTGACTCGTGGCGCATGCCCCAGCCCTGCCTGAGGTGGGGAGCTGGCGGTCTGCGCATGCA
GAGCTCGCGTGGGCTTGCCCTTCGTGGGGGCCAGGACGGGAGGAGGGTGGGGGGCAGGCTGGACCACCACCATCT
GCCCTGGCAGCCTGGCTGCTCCAGCTCCTGACAGCACCTGTGTCTGAGCAGCCGTGTTGGGGGCGCTCCCTCTCT
GCCCTCAGCGAGAGCCTCGGACCTCCCAACCCCTTGTGTCTGGTGGGGATCCCTCCTGGGATGAGGAAGACCCC
CTCGGGCTCTCGGCTGACCCCACTCCTGCACAGCTGTGCCAGGCCCCAGGGTGGTCCATGCGGGGCAACCC
CCTGCGGTGCACAGGCCCCCTGTCTGGAGTAGGGATCTAATTTATTTATTTATTTGCTGGCCGGTGAAGTGGGGG
AGGAGGCGACCCTGTCTGTCTCCACCTGCTGCTGCCCTTGGAGCAGCCTGCACCTTCTCTCTCTCCCATCCGG
CAACAGTCTGAAAGTACGTGGAGGACGGGACCGGAAGACGAGAGAGGGCTGGACATCCTGCCCACCGTGTCCAG
CCAGGGCAGGGAGGGACCATGGCCCGCAGGGTCAAGGGGCCCCGATGTGCACAGCTGCCACAGGGAGGGAGGTCT
TGGGGAGATGGGCAGTCAGGTGGCCCGTCTTGGTGGTGCACACACTGCGCGCACACATCGCGGCCCTTCTGGC
TTCTCTGGCCCCACGTGTCTGTGCTGTAGATACTGTATCAAAGTCCAGCGTTTAGATGGTTAACATAGAGCTG
CTTCTGTGTAATGCTGCTTATTTTAAACACTAAAAAGCGTTTAATTTTATGGG

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FIGURE 25

MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVLSNRPVHAYKFFFKSMDQDFGVVKEEIFDDNAKLPCFNG
RVVSWLVLAEGAHS DAGSQGTDSHTDLPPPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESMVSHRRERARR
RNREEAARTNGHPRGDRRRDVGLPPDSASTALSSELESSSFVDSDEDGSTSRLSSSTEQSTSSRLIRKHKRRRRK
QRLRQADRASSFSSITDSTMSLNIVTVTLNMRHHFLGISIVGQSNDRGDGGIYIGSIMKGGAVAADGRIEPGDM
LLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTFRSYFTVPRADPVRPIDPAAWLSHTAALTGALP
RYELEEAPLTVKSDMSAVVRVMQLPDSGLEIRDRMWLKITIANAVIGADVVDWLYTHVEGFKERREARKYASSLL
KHGFLRHTVKNKITFSEQCYVFGDLCSNLATLNLNSGSSGTSDQDTLAPLPHPAAPWPLGQGYPYQYPGPPPCFP
PAYQDPGFSYGSSTGSQQSEGSKSSGSTRSSRRAPGREKERRAAGAGGSGSES DHTAPSGVGSSWRERPAGQLS
RGSSPRSQASATAPGLPPPHPTTKAYTVVGPPGPPVRELAAPPELTGSRQSFQKAMGNPCEFFVDIM

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FIGURE 26

GCACCGCCCCCGCCGCAAGAAAGATGGCAGTGGCCTGATCCGGGGCCCGTTGGCGGCGTCACTGACGCTTCGCTC
CGGTCTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCTGCTTGTCCCATCCTGCGGCCGTCTTGGGG
ACACAGAGCCCTCCGTGGTGCCCGGGGATTGGATTGGAGCCAGGACCTCACTTCCTCCTCTGCCCCCTGCCCTGC
CCCTCCCAGCACCTGGCCACACCCCTGCAGCCCGCCCCATGGTCTGGCCCTGGGTGGCGATGGCGTCCAGGTGGG
GTCCCCCTCATTGGCCTGGCTCCGTGCTGCCTCTGGCTCCTGGGGGCGAGTCCTTCTGATGGACGCGTCTGCACGGC
CTGCCAACCACCTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGGAGAATGAGATCCTGCCCCCAGACCACCTGA
ACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCCACCAGGAGGTCTTCCTAGGCAAGGACCTGG
GTGGCTTTGATGAGGACGCGGAGCCGCGGCGGAGCCGAGGAAGCTGATGGTCATCTTTTCCAAGGTGGATGTGA
ACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCATGGAGAAGACGGCCGAGCACTTCCAGGAGG
CCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCTGACGGGGACGGTCACGTGTCTTGGGACGAGTATA
AGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGGTGCCGACGCCATCAGGCTCAACGAGGAACTCA
AAGTGGACGAGGAAACACAGGAAGTCCTGGAGAACCTGAAGGACCGCTGGTACCAGGCGGACAGCCCCCTGCAG
ACCTGCTGCTGACGGAGGAGGAGTTCTTGTGCTTCTCCACCCGAGCACAGCCGGGGAATGCTCAGGTTTCATGG
TGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGCTCTCTGTGCCCGAGTTTCATCTCCCTGCCCG
TGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACCTGGGTGAAAGACAGAAAAAAGGAGTTTGAGG
AGCTCATTGACTCCAACCACGACGGCATCGTGACCGCCGAGGAGCTGGAGAGCTACATGGACCCCATGAACGAGT
ACAACGCGCTGAACGAGGCCAAGCAGATGATCGCCGTCGCCGACGAGAACCAGAACCACCACTGGAGCCCGAGG
AGGTGCTCAAGTACAGCGAGTTCTTACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGCACGAGGAGTTTT
GAGCGCCCCGGCGCGCCCCCGCGCCGCCCCCACGCACCACCGGGGCGGCCTCGCGGGTGACTCCGGGCTCCGTGG
CTGTCCCGGACCCACCTCTTCCCTGCCGCCCCGCCACCGGCCGACCGACCGCGGTGCCCCAGTTGATGAGCGGC
GTGTCCCTCTGCAGCGCGCACCCCGCGGGGGCTTTGGCTGTGACGCGGTGCGGGGCGGGGGCTGGGCTGTGGCC
CCGCGGCGCGCCTCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCA
CTCTGCCGAAGGCGCTGACGGCATCGCGGCCGGAACCTCTGGGCCCGGCCCTCCAGGGCCGCGCTCCGTGGG
AAAAACAGCTCCTCCATTTCTTGAAGTGAACGATTATTAAAAATAGATTAACTTCGCTGGAAATGAGTAG
CCAGGAAGTTCCAGGGGAGGGTGCCGGGTCTTCCCGGGCCTGGCGTGTGCGAGCCACCCAGGTCCCGCAGCTGCC
GCTGAGAAAATGCAATATTTGTTGTGACAAGAATCACATACATTTACTTTAAATATAGTTGCCTTTTTTGGTCA
GCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 27

MVWPWVAMASRWGPLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANREENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDDQDGDKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQNHHLPEEVLKYSEFFTGSKLVDYARSVHEEF

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FIGURE 28

AAGGGGCCAAAAGGTCCACCTGATGAACCTGTTGCACGCGAAAAGTTCAGAACCACTGCTGCCAAGATGCTGACA
GAAGCCTTGAGAAGCACCTGCTGCGGGAAAAGACGTGCAGGCCTCACAGGTGCAGTGCGGTCTTCAGCGCGCTTG
AAAGCACGAAGTTGTTTCGGCAGCCAGGTTGGCCTCTGCCCAGGAAGTTGCTGGTTCCACGTCTGCCAAGACAGCA
TGTCTGACCCGGGCCCTGATCCTAGCACCCGCCCACCCGTGTACTTCCTCATCCACAAAAGCCACAGACACGCGA
ACGTCCAAGAAGTTCAAATGTGACAAAGGACATCTTGTGAAGTCAGAATTACAGAAGCTTGTCCCTAAGAATGAC
AGCGCTTCTTTGCCAAAAGTGACACCTGAGACCCCTTGTGAAAATGAGTTTGCTGAAGGCAGTGCCCTTGCTTCCA
GGCAGCGAGGCTGGCGTTTCTGTGCAGCAGGGGGCTGCAAGTCTTCCTCTCGGTGGCTGCAGAGTTGTGAGTGAC
TCTCGCTTAGCAAAGACTAGAGATGGCCTGTCCGTGCCAAAACACAGTGCCGGGTCCGGAGCAGAAGAATCCAAC
AGCAGCTCCACTGTGCAGAAGCAGAATGAGCCAGGGCTACAGACAGAGGATGTGCAGAAGCCACCACTTCAGATG
GACAACAGCGTCTTTCTAGATGACGACAGCAATCAGCCAATGCCCGTGAGCCGGTTCTTTGGAAACGTTGAGCTC
ATGCAGGCCATAGAGAGGTCCGTGTGCAGCTGCCTGACGAGAAGTGCATTCCCCAGCCCCAGCGGCGTCAGGGAG
CACCTCACCGTGTGTTCTCGCCCAGGGCAGTGGAGACAAGCCATTGGGAGTGCTCTCTCCATGGCCTCTTCCTGC
CGCCACCTGCACATAGAAGCTGAGTGGACCAACCAGGAGCAAGCTGGGGTCCCCGGGTGA

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FIGURE 29

AGAGGCGAGAACGACCCCGGGACCGACCAAAGCCCGCGCGCCGCCGCATCCCGCGTACAGCACCTACATCCCGCC
ACCGTCACCGCCACCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGGTAAAGCCAAGGTGAAGGAC
GAACCACAGAGAAGGTCTGCAAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGACC
CCTGCAAAGAAGGCAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTCCCTGAC
TTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTGTGGAAAAACAAATTTGTTTTTATGTCCTCTTCTC
CCTTTCCATCTTTAGCATAGACTTAACTCCTTTAATCCCAGGCATCTGTTGGGACCTGACCCCTAGTCATTGGT
TACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTCCA
TTTCTAGATTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACCTTCCTGAAAGTCAGAGTCGGCTTGTGAA
AAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTTCAGAGCATGAGATGA
AGACTTCTTTGGGTTTTATAGCGGCTTTCTGATTTTTCGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTA
TACTGTTAACAATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 30

MPKRKAEGDAKGGKAKVKDEPQRRSARLSAKPAPPKPEPKPKKTPAKKAEKVPKGKKGKADVDTHGHLGTKALWC
GKTNLFLCPLLPHLSA

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FIGURE 31

TAGCTAGGCAGGAAGTCGGCGCGGGCGGCGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCCCTCCGCTTCCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCACTGTTGAGGTTGATCTCTT
CACCTCAAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGCCCTAGAGCTCCG
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAATAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTCACAGAACAAGAGAAGATTGACAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGTCTGCAAAGCTGGTGCCGTTGA
GAAGGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTCGGTGC
AGCAAACCTCAGGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCTTGCCG
ATCTGAGCGCTTGGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACTTCAGAAACCCCTTGGCCAAG**TAAG**CTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCCTCCCCTCGTGTCAGCTCAGGCAGCTCGAGGCCCCCGACCAACACTTGCAGGGGTCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTCGTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGCAGTCGTGTAATTGGCCCAAGTCATTGTTTTTCTCGCCTCACTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTCATCTCCGGGGTGGCCACAGGCTAGATCCCCGGTGGTTTTGTGCTCAAAATAAAAAGCCTCA
GTGACCCATGAG

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FIGURE 32

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVNTEQEKIDKLMIEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSFIKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFRNPLAK

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FIGURE 33

TGGTCCCAAGGCGCGTGCTTTGCAGCAGATGTGTGACCTGGCGTTCCCCTGAGTGCTCGGAAAATGGCCTTGTCT
CCGGTTCGTTCCCGTTTCAGGAGCAGAATTTTCCCACTGTAAAAAACCGAGCAAGTCTGGATAAGTGAGGCTGGCTC
CATGTATCCAGAATCAACGACGGGCTCCCCGGCTCGGCTCTCGCTGCGGCAGACGGGCTCCCCGGGATGATCTA
CAGTACTCGGTATGGGAGTCCCAAAAAGACAGCTCCAGTTTACAGGAACCTGGGCAAGTCTGGCCTGCGGGTCTC
CTGCCTGGGACTTGGAAACATGGGTGACCTTCGGAGGCCAGATCACCGATGAGATGGCAGAGCAGCTCATGACCTT
GGCCTATGATAATGGCATCAACCTCTTCGATACAGCAGAAGTCTACGCAGCCGGAAGGCTGAAGTGGTACTGGG
AAACATCATTAAAGAAGAAAGGATGGAGGCGGTCCAGCCTCGTCATCACCAAGATCTTCTGGGGCGGAAAGGC
GGAGACGGAGCGGGGCTGTCCAGGAAGCACATAATCGAAGGTCTGAAAGCTTCCCTGGAGCGACTGCAGCTGGA
GTACGTGGATGTGGTGTGTGCCAACCGCCCGGACCCCAACACCCCGATGGAAGAGACCGTCCGCGCCATGACCCA
CGTCATCAACCAGGGGATGGCCATGTACTGGGGCACGTACGCTGGAGCTCCATGGAGATCATGGAGGCCTACTC
CGTGGCCCGGCAGTTCAACCTGACCCCGCCCATCTGCGAGCAGGCTGAGTACCACATGTTCCAGCGTGAGAAAGT
GGAGGTGCAGCTGCCGGAGCTGTTCCACAAGATAGGAGTGGGCGCCATGACCTGGTCCCCTCTGGCCTGTGGCAT
TGTTTCTGGCAAGTACGACAGTGGCATCCACCCCTACTCAAGAGCCTCCTTGAAGGGCTACCACTGGCTGAAGGA
CAAGATCCTCAGTGAGGAGGGCCGGCGCCAGCAAGCCAAGCTGAAGGAGCTGCAGGCCATCGCCGAGCGCCTGGG
CTGCACCCTGCCCCAGCTGGCCATAGCCTGGTGCCTGAGGAATGAGGGAGTCAGCTCCGTGCTCCTGGGGGCCTC
CAATGCGGACCAGCTCATGGAGAACATTGGGGCAATACAGGTCTTCCGAACTGTATCTTCCATTATCCACGA
GATTGATAGTATTTTGGGCAATAAACCCCTACAGCAAAAAGGACTACAGATCCTAAGCCGCCCCCGCCGCCTGCT
CGGACAGTTTTCCGTTCCCTCCTAGTCTCTGTTTCGCTCGCTTAAGCTGTTTTGAAGCCAAGTGAAGAGTGTGGTTT
GCATCCAAGAGAAAAACACCACACTGTGATGTTCATCGGGAAATGATCTCCAAGTCGCTGCCAGACACCACCCACT
GCTTCGCGCGGACAATGTGCAAGTCCAGTCTGTGCCGGGAAGGCACTGGTTAGGAAGGATGTTCAAACGGTCCCA
CCCAAGCCTGTACCTCTGCTCATCCTCCAAGACCACCCAGCTTTCTCCAGCCACAGCCAAGATTCCCAAAGTC
AAGGCCCAAAGATTTCCAAGGTTCCCAAAGTCAAGGCCAGGCCAAGGCCTGGTTGGGTCTTGGGGCGGGCAGGG
CCAGCCTCTCCTCTGCTGAGAATCCCCACTTGGTGTAGGGGGAGAGGGGAAAGGGGTCTGGCCATCGAGGGGCC
CCTTCTGCCAGGGCCTTGGTTGCTGGGGCAGGGCCTCCCCACTGGGGGTCTTCTCCACCTCCCACTTTCCAAGG
GCTCCAGGAATCTGGGGCCTGACCACAGATTCTCTCCCATCTTTTCTGCTCCAACCTGCCCCACTGGGTCCCG
GCAGGGGCCATGCCTACCAAGCTCGAGCTGGCCCTTGACCCCAACCCACCCCACTTCTGCTGGCAGGGGCAGGG
ACCCAGGGGGATTGACTCTGCAGTTTGGGAGCCACAAAAGCGTAGCGGTGTGATTTCTAGCTCAGCCTCCAC
CGTCTTCTCCTACACACCAATGATGAGCCTCATGCCAGTGAAGCCCGGAGCGCTTGGGAGGGGTCCCACTGGGG
CAGGCCCCCTCTGTCTGGCCACCCCTCTGTCTGGCCCCGGAAGGCCCTGTGGTTCATGTGCTCCTAGCTGCACGGT
GGCTGCTGGCCACACCACGGCAAGTGGCAGCAGGGGCGGGCCTGTGCACAAGGATGCACTCCTCTCGGCCCTG
TAGACTTTCTCTAAAGCCGCCCGCCAGCCAGGCCGTGCTCTGCACCGAGCTGGTGGGCTTGGGTTTTGTGGAG
CGCATGCTTGGACCCTTTTCAAGTAAGGAAGGGTCTTTGGGGTTTTCTGTGCCCATGACTTGGGGGCTGCACCCCA
CAGCACCCCAACAATGTAGGAAAAGACCTCAGGGAACCTCTCCCTGGAAAGACGGGCAGGGCTGGTTAGCCCTC
CCACTGCCTGACACCTGGGACAGGCTGGGCAGAGGGGAGAGAGGGCAGGACAGGCCAGAGTGACGCCCCCGTGCA
GCTTGGGCGGAGGGCAAGGGATGCCAGTAAGTCTGCAGGTGCGGGGTGCCACCTACAGGCCAGGCCTGTGTCC
CAAGCAGTACCCAGGCTTTGTCAGACCACGCGGGGCAGGGCTCCACTGAAGCCACCCCACTCCCTCGCCAGCTAGC
TCCATAGGGAAGCCTGTGTCTCCTGCCCCAGGGCGCACCCCTCAGTGCAGGCACCTCTGTTCCCGCTTTGCCCT
GGAGGAGCCACTATTCCAGAAGGCTCCACCCTGCCGTCTGCGGGAGCCTGCTGTCCAGTCTTGGCCGGGCAAG
GCCTGGGAAACTGTGAAAGTCAGAAAGGCCAGCGGGGAGAGGCTGGGGCGAGGGGAGGAGGGGGATCAGCTTCTG
CTATTACCGACCCCCCTTCATGCTGCCCCCTGGCGCCTAGAACCCTTGCCCTCCTCATAGACCAAGTCCCGGGG
TCTCCACTCAGTCTGCTGCCTGCTTCACCAGAAGCAGCCCTGTGAGTGTGGGGTGGGGAAGTCCCTTCCCAACG
GAGGTCCAGCCTATGGCCCTGGGCCCAGGTGGGGGTGCGCTGCTTCTTCCCGACAGGGTCTGTCAG

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FIGURE 34

CCTTTCTAACTCCGCTGCCGCCATGGCTCCTGTGAAAAAGCTTGTGGTGAAGGGGGGCAAAAAAAGAAGCAAGT
TCTGAAGTTCACTCTTGATTGCACCCACCCTGTAGAAGATGGAATCATGGATGCTGCCAATTTTGAGCAGTTTTT
GCAAGAAAGGATCAAAGTGAACGGAAAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCATCGAAAGGAGCAAGAG
CAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCAAAAAATATTTGAAGAA
GAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTACGTTACTTCCAGATTAA
CCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTCAATTTATCTGGAAAATTTGTATGAGTTCTTGAATAA
AACTTGGAACCAAAATGGTGGTTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAAAATTGGAAATCATAGT
CAAAGGGCTTCCCTTGGTTCGCCACTCATTATTTGTAACTTGACTTCT

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FIGURE 35

MAPVKKLVVKGKKKKQVLKFTLDCTHPVEDGIMDAANFEQFLQERIKVNGKAGNLGGGVVTIERSKSKITVTSE
VPFSKRYLKYLTKKYLKKNNLRDWLRVVANSKESYELRYFQINQDEEEEEDED

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FIGURE 36A

CGCGCTCGCGGGGGGGCGGTGGCGCCCGGCACAGAGGGGTAAAGGGGGCGGTGCAGACGTCTCCCCGCCATCCCG
CCCCTCGAGAGCCGCGGCGCCCGCCCTATTTATAGCAGCGGTGCCTAGCGCGCCGCGTCTCTCCGCAGGCCCCG
GCCGCGGCGTCTCGACAACCTATCGAAGGCGCCATGGAGCGACCGGCGCCCTGGCCGTGCTTCCCTTCTCGGA
CCCCGCGCACGCCCTGAGCCTGCTGCGCGGCTGAGCCAGCTGCGCGCCGAGCGCAAGTTCTTGACGTGACCCT
GGAGGCGGCGGGCGGGCGGACTTCCCGGCGCACCGTGCCTGCTGCGCGCCGAGCCCTACTTCCGCGCCAT
GTTGCGGGGCGAGCTGCGCGAGAGCGCGCCGAGCGGGTGCCTGCACGGAGTGCCTCCCGACATGCTGCAGCT
GCTGCTGGACTTCAGCTACACGGGCGCGTGGCGGTAAAGCGGCGACAACGCTGAGCCGCTGCTGCGCGCCGCGA
CCTGCTGCAGTTCCCGGCCGTGAAGGAGGCGTGCGGGGCTTCTGTCAGCAGCAGCTCGACCTGGCCAACTGCCT
GGACATGCAGGACTTCGCTGAGGCCTTCAGCTGCTCGGGACTGGCGAGCGCGGCGCAGCGGTTTATTCTGCGCCA
CGTGGGCGAGCTGGGCGCCGAGCAGCTGGAGCGGCTGCCACTGGCGCGCTGCTGCGCTACCTGCGGGACGACGG
GCTGTGTGTGCCAAAGGAGGAGGCGCCTACCAGCTGGCGCTGCGCTGGGTCCGCGCTGACCCGCGCGCCGCGC
CGCGCACTGGCCGCGAGCTGCTGGAGGCGTGCCTGCGCTTCTGTCGCGCGCTTCTACCTGTTGGCGCACGTGCA
GGCCGAGCCGCTGGTGGCGCGCTGCCACCCCTGCCTGCGCTGCTGCGCGAGGCGCGGACTTCCAGGCGGCGCG
CTACGACCGCCACGACCGCGGGCCCTGTCCCGAATGCGTCTCGCCGCTCCACCGGTCTCGCCGAGATCCTCGT
GCTCGTGGGCGGCTGCGACCGAGCTGTGACGAGCTGGTCACTGTGCTGCTACAACCCGAGACGGGTGAGTG
GCGCTACCTGGCCGAGTTCCAGACCACCTGGGCGGAGGCTACAGCATGCTGGCGCTGGGCAATGACATCTACGT
GACGGGTGGGTCCGATGGCTCCCGGCTCTATGACTGCGTGTGGAGGTACAACCTCAAGCGTGAATGAGTGGGCGGA
GGTGGCGCCCATGCTGAAGGCGCGGAGTACCACAGCTCCTCTGTGCTGGACGAGTGTGTACGTGGTGGCCGC
CGACAGCACCGAGCGCTATGACCACACCACTGACTCCTGGGAGGCCCTGCAGCCCATGACCTACCCCATGGACAA
CTGCTCCACCACTGCGTGGCGTGGCCGCTCTATGCCATCGGCTCCCTGGCTGGCAAGGAGACCATGGTGATGCA
GTGCTACGACCCGACACCGACCTGTGGTGTGCTGGTGGACTGCGGCCAGCTCCCGCCCTGGTCTTCCCCCAA
GACTGCGACTCTAAACGACTCATGTACTTTGTGAGGGATGACTCCGCTGAGGTGGACGTGTACAACCCGACGAG
GAACGAATGGGACAAGATCCCGTCCATGAATCAGGTAAATTTTTCAGGCGGGCCAGCATTGGAAGCACAGGCTGGT
CCTGATTTTGAACCCAAAGTGTATCGTGTGAGTGTGGGATCCACAGCCATGATGGATGGGTCTCATCTCAA
TTAATAGAAGGCTGCTCTTACCCTTATTTTGCACTTAAGGCTCACTGAGACACAGATGTTAAGTAATACCCTATG
ATTACACAGCTTAGTACACATTTGAGCAGTGTATTATTGAGTATCTGCTGTGAGCCAGAGAGCAGAAGGAAGTGAG
GGAGCAAGGCATACAGTCATCTGGGGACACCTGTTCCAGAGAGGGACAGCAGGTACAGAGGCCCTGCAGCAGGGC
ACCCTGGCGTGTCTTAGATACACCAGCAGCCCATGTGGCCGAGCAGATCAGCATGAGGTCTGTGACCTACCT
TTTTTATTTTGGAGACAGGGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTACAATCATGGCTCACTGCAGC
CTCCACCTCCTTGACTCGCAGTCTCCACCGCACCTTCTGAATAGCTGAGACTACAGGCGTGTGCCACCACAC
CCAGTAATTTTTTTCTCATATGTAGATACAAAAGGATATTCTTAAATTTTATAGAGACAGGGTCTTGCTGTG
TTACCCAGGCTGGTCTCACACTCCTGGCCTCAAGTGACCCTCCTGTCTCAGCCTCCCAAAGTGCTAGGATTATAG
GCGTGAACCAACAGCCCCAGCTGGTTCCTGAGGAAGTCAGTGTGGGAATACTTTTTTTTTTTTATACGGAGTCT
CGCTCTGTACCCAGGCTGGAGTGCAGTGGCAGCATCTCGGCTCACTGCAAGCTCCATCTCCAGGTTACGCCA
TTCTCCCGCTCAACCTCCCGAGTAGCTGGGACTACAGGTACCCACCACCGCCAGCTAATTTTGTGTTGTGTA
TTTTTAGTAGAGACGGGATTTCACTGTGTAGCCAGGATGGTCTGGATCTCCTGACCTTGTGATCTGCCTGGCTC
AGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCAGCCCACTGTGGGAATACTTGTGTTGAGCAC
TTGCTGTGTGTTCTGAATAGGACAACCAGGGTCCACCCCTTCTCTCTGGGCTTGTGAGAAGAGGGGTGCCAGC
CTGACAGTGTAGGGACAGGGAGGCTTCAGTGCCATTTGGCCATGTGAGCAGTGTAGTCTGAGGTACACATCATA
TTGCCTACAGCCTTCTTTCTGTGTGTCTGTTAACATTTCCAAACCTACACTCCGTGACATCCAGCCTCACAGCT
TACATCACAGCTTAATGTCTGTCATTTAAGAGACCCAGCGTTCTGTTTTCCCCGAGTAAGCTGCACATAGTCA
TAGCGAATTTGGGAAAGATGGAAGGAATCATCCAGCCTCGCGGTTTCAGAGCCCAGCTCTGCCACTGTGAGCCATG
CAAGCCTCAGTTTTCCCATCTGTAAATGAGGAGAACAGCACTGCTCAGCCCAGAGGGCCACTGCAGAGATTCTG
AGAGAGAACGTAGGAAGCGCTGCTCGGCACGACCTGCACACGGGAGGCTGGCGCTGCAGCGGGCACCTCATC
ACCATAGGGAAGGCCAGCTGCCTCCGGGAGGCGGCTTCTCTAGGCAGGGTGTGGAAAGGGGTGGCCTCTC
TGCTGCTTTCTGGGAGAGCCAAGGCCACCCCTCTGGGGTACTGACAGGGCATGCCTTGTCTCCAGTGGTCCCCA
GGTGGGGCCCTGCCCTACCCTCTCCTCTGACCTCCACTCACTCATCCCTTTGGCCACAGGTACATGTGGGGGGC
AGCCTGGCCGCTCCTTGGGGGGAAGCTGTACGTCTCTGGGGGATACACAATACATTTGAATCTCGGACGTGGTA

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FIGURE 36B

GAGGCCTATGACCCAGAGACTCGCGCGTGGAGCGTGGTGGGGCGGCTCCCAGAACCACCTTCTGGCATGGCAGT
GTCAGCATCTTCCGCCAGTTTCATGCCCCAGACCTTCTCGGGTGGGCGTGGCTTCGAGTTGGACAGTGGCAGCGAT
GACATGGACCCAGGCCGACCCCGGCCGCGGGACCCCGATGAGCTGCACTAGCCCCAGTCTGGCCCCGGCACGG
GCCTCGGTGCAGGTAACCTGGCACCTCTGCGGGGCGAGTGGCCCACTCCTTTGTGCACAAGGACACGTTGGGCTCAC
AGGAGGAGCACAGGCTCTTGGGTGGCGAAGCCAGCCAGGATCCATTACCTGGAAGGTTTCTGTACCTTGAGAGC
CTGAATCAGAGGCCGTCGGGAACGCCCTCCCTGCAGTTGAGGAAGAGCCACTTTCTGCCAGCACATGTTTCTGG
GTCTTGGAGGTACCCCCACCCGCGGATCACAGCTCACCCACGCGGCGCACACCCCTCCTGCCGTTGTCTCTG
CACCTACTTGTTCACCTTGGGAGAGGACGATGACTTGGGAGGGACGCGTGAAGGGAGAAGGGGTCTCCCATG
AGGCTGAGGATGGCCTGAACCTGGAGCAGCGGACCAGGCAGACGGGCTGAAGTGGGGTCCCAAATTCATGTCCA
GAGGTGTGGGGAGCCTGCCTCCCTAGCTCCTGGCCCCCTGCCAGGGGCTTACATCAAAACACCTCAGAGGGCTGCC
CTCCAGAGGCTGCACCCAGAACAGTGGGACATGAGCAGGGGTGTGGGCTTGGAGGGTGAAGAGGATGTGGTCCTA
TCAGATGCTGGGCCTCCTCAGCCATAGCCCCCTGCTCCTACCCCTGACTGGCTCTTGCCTCCTCACCCTCTACC
CTCTCCTTCCCGGGAGGCCCTGGGAGGTGATCATTGACACCCAGCCAAGCAGACAGCTGCGGGTGGCCAAGCCCT
TGCTGGGCCTGCGCGTGAGGAGTCCCACTGCTTCTAAAGGAAGTCTGGGCAGGAGGTGGCTTTGGTGGTTGGTT
CCAAAGTTGAAAATGCTTGCAAGTTGACCTTAGAAGAAGTGGGAAGAAGAAGGAGCTCTACAGGGTCAGCTTTGT
TTGATTTGTCCAGTCTAAGAAGTCCCATTTGCCAAAGCTTTCTGCAGGAGGGTGAATGCCGAGCTTGGCAGCCCC
TGGGTTTCTCTTGAAATGGTCAGTTTCCCTCAAAGTACCCAAAGTAGCCTTGGCTTGAGTTTTTGTCTTGCC
TCCTTTTTAGAGAAGAGGGCATTTAGACTGCATTTTCTGGTTAAAGAAGGTTAAAGCAAATGTTTATTGCCTTT
TCTAGTGAACATACTCGTAGAGATGTTCTCAGCAGGAAGACAGTCTTAGCACTGTCACTTAGCAGATTGCACTTA
AGTCCCTTGTGCTGGCCAGATGGCGTGGCTGGTTGCCTTAATATGTCCAGGACCCCTGACAGGGCTGCCTGGCC
TCTCCCTCGTGCTCCTCAAGAGCCCAGTCCATACACTGTGGATGTCATTGCTGTGCGGTTAGGAAGTCTTGCTCT
AGAACGCCCTGGCTGGTATGACCACAGTTCATGGCGGCTCTTCTCGCTTGGGTGATGGTCATCTTCCAGCACCTG
CTGTGCTGGGAAGGCCGAGGATGGGGGCCAGCACTGTCCAGGCCTGCTGGGGCCTGGCTGGGAGTCTGTGGGC
AGCATGGAACATGCAGCTGGGCTTCTGTGACCAGGCACCCTCTGGCACTGTTGCTTGCCCTGTGCCCTGGACCT
TTTCTGCCCTTCTCCTTCTCTGCTCCCTTGGGGCTACCCCTTGGCCCTCCTGGTCTGTGCAAACTCCCTCAG
GGAGCCCCCTGCCCTGTAGCTCTCGCTTAACTTCTTAGGGGCTGCTGAGCCACCCAGAGGTTGTTGGAGTTCA
GCGGGGCGAGTTGTCTCCCTTGTGAGCAGGGGCGTAAGGGCTGGGTTTGGCCATACAAGGTTGGCTACGCCCTCA
ATCCCTGACCGTTCCAGGCACTGAGCTGGGCACCCACGGAAGGACATGCTGTCCAGACTGTGATGACTGCCAGCA
CAGGGCATCTCGGGCTTGGCTGGTCTGCGAGGCCTTGCCCTGTGGAACCTCTGGGTTCTGTTTTCTCAGTCTTT
TTTGC GGCTTTGCTGTGGTTGGCAGCTGCCGTACTCCAGGCTTGTGTGCGCCACTCAGATGAGGGCTGTGGTGCG
AGCCAGTGCAGGAGAGCTGCGCTTGGGATTGTGCCCTCTCCTGTGTCTGTCTCCGGACCTACCCAGGTCTCCAC
CATCAGGACCTGTCTTTGGGTTTAGAAGACCAAGTATGGGGAAAACCAGGCACCAGCCTCTGCAGCAATGGGTC
CCTCTAGCCTGTGGACACCAGCTGGGGATCCAGGGTCAGGCCCTCCTCTCCCAGTTTCCCTCTGCTGTGGG
TTCTGGGCTGTCTGTCTCCACCACTTAAGGATGTCTTTACACTGACTTCAGGATAGATGTTGGGATGCCTGGGC
ATGGCCACATGTTACATGTACAGAACTTTGTCTACAGCACAAATTAAGTTATATAAACACAGTGACTGGTATTTA
ATGCTGATCTACTATAAGGTATTCTATATTTATATGACTTCAGAGACGCGTATGTAATAAAGGACGCCCTCCCTC
CAGTGTCCACATCCAGTTACCCAGAGGGTCGGGCAGGTTGACATATTTATTTTGTCTATTCTGTAGGCTTCC
ATGTCCAGAATCCTGCTTAAGGTTTTAGGGTACCTTCAGTACTTTTGAATAAAAGTATTTCTATCCATTTGG

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FIGURE 37

MERPAPLAVLPFSDPAHALSLLRGLSQLRAERKFLDVTLEAAGGRDFPAHRAVLAAASPYFRAMFAGQLRESRAE
RVRLHGVPPDMLQLLLDFSYTGRVAVSGDNAEPLLRAADLLQFPAVKEACGAFLOQQQLDLANCLDMQDFAEAFSC
SGLASAAQRFILRHVGELGAEQLERLPLARLLRYLRDDGLCVPKEEAAYQLALRWVRADPFERRAAHWPQLLEAVR
LPFVRRFYLLAHVEAEPLVARCPPCLRLLREARDFQAARYDRHDRGPCPRMRPRPSTGLAEIILVLVGGCDQDCDE
LVTVDCYNPQTGWRYLAFFPDHLGGGYSIVALGNDIYVTGGSDGSRLYDCVWRYNSSVNEWAEVAPMLKAREYH
SSSVLDGLLYVVAADSTERYDHTTDSWEALQPMTYPMDNCSSTACRGRLYAIGSLAGKETMVMQCYDPDIDLWSL
VDCGQLPPWSFAPKTATLNGLMYFVRDDSAEVDVYNPTRNEWDKIPSMNQVNFQAGQHWKHLVLILQPKCHRDE
CLGSTAMMDGSHLN

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FIGURE 38A

CCCGCGCCGAGCCGGCGCGGGCCCCCGCACCTCCCCCGCTCGCGCGGCCTCGAGTCCAGAAGACCCGCCTCCAC
ACACCGGGGCCCGCCGCGGAGCCTCATGGGGGTTGGAGTCCCCAAGGTTTCCTTTGTGCGCAGTATTGGCGGG
GCCTTGGACTACCACTCCCAACAAGGCACCGCGCCCGCTCCCGCGCCACGCCCCCTCGCCGCTGGCTTCCAGTCG
CCACCCAGACTACATTTCCCGACAGGCCTCCCGGCTCTCCCGCCCTCCCTCCCGAGACACGAGCCGAAGTGGGCG
TCAGGTCGGGGAGCCGGTCGGGTTCCCGCTCACC CGCGCGCGCGCGCCCGCTGCAGCCACTCTCCCGCCTCTAC
CGCCGCGGGAGCTGCATCGTCCACTCCGGTCGGCGGTGGAACCGCCAGTCCGGGGTACACAGAGCTTGAGAAGCGA
CGCGCTGAGCCCCCATCACCTCCAGCCCCGGCGACCCCTCCCGGGTCCGCCCTCGCCCTGCGCAGCCGCCCGAG
CCCCAGCCCCGGGCGGCCCGCTCCAGCATCCAGCTCCTGCACTCTCGCAGCCGCCCGCGCCCCCCCCCGCCCGGA
ACATGGACTCTGACTCTTGCGCCGCCGCCTTCCACCCGGAGGAATACTCCCCAGTTGCAAGAGGCGCAGGACCG
TGGAAGACTTCAACAAATTCTGCACCTTTGTCTTGCCCTATGCTGGCTACATCCCTTATCCGAAGGAGGAAGTCC
CTTTAAGGAGCAGCCCCAGCCCTGCTAACAGCACTGCTGGTACCATTGACAGCGACGGCTGGGACGCGGGTTTCT
CAGACATCGCGTCTCTCAGTGCCTTGCCAGTCTCTGACCGCTGCTTTAGCCACCTGCAGCCTACTCTCTTGACG
GAGCCAAGCCAGTAACCTTCTGCTGGACAGAAAGAAAACGGACAAGCTGAAGAAGAAGAAGAAGAGGAAGCGCA
GGGACAGTGATGCGCCTGGGAAAGAGGGGTACAGGGGGGGCTTGCTGAAGCTGGAAGCCGCTGACCCCTACGTGG
AGACCCCCACGAGTCCACCTTGCAGGATATCCCCAGGCTCCAGCGACCCCTGCTCGGGCTGGGACTCCGATA
CTCCCTCGAGTGGATCTTGTCGCACTGTGTACCTGATCAGGTCAAAGAAATAAAAACTGAAGGCAAACGGACTA
TCGTCCGGCAGGGAAAGCAGGTGTTGTTCCGAGATGAGGACAGCACTGGCAATGATGAGGACATCATGGTGGACT
CAGATGACGATTCTGGGACCTCGTGACCTGCTTCTGCATGAAGCCATTTGCCGGCGCCCCATGATCGAGTGTA
ATGAGTGCCACACCTGGATTACCTGTCTGTGCGAAAATCCGGAAAATCCAATGTTCCAGAAGTGTTTGTCTGCC
AAAAGTGCCGGGACTCCAAGTTTGACATCCGCCGTTCCAACCGCTCGCGGACGGGCTCCCGGAAGCTGTTCTCTGG
ACTGACTGCTGGCTGGCGAGGAGGCTGCGAGCGTGGAATCGGAAGCGACCGCGGGCTTTTTTGCCCTTCTCTTAG
TTGAGCACAGAACCCTCAGCTCTGGTGGCGGAGATCCCTGCCATTTAGGTGCCTAAGCAAAAGGACAGGCTGTC
CAAGGTAGAACTGTACATAGCCGGTGACCGAATGCGACCTTTGCCAGCCAGAGCTGCTGCCAGAGCTGCGTTCC
CTGCACTGGAGGTGGACTGGACACCCACGTGCAGCGGGTTTGGCTCATTTGAAAATGAGGGTCCGTGGTAGCTGT
GCGTTTTGCTATCATTGCTAAGAGATTCCCGCTGATTGGGCTCAGTGCCAGCTGTTATTCTGCTTCCACTGTGTT
GGGGAGAGGTGTTCCGTTTCCCCAGCCTGTTAATGAACAGCCATACGTGTAAGCTTTTTCTTGAGTGTTAAGTCT
TTTACCAAAAGTGCTGTACAGCAGCCATCCAAGTTGCCCTACTTAGTGGCTTGCCCTCTGCCTGCCTCAGCTG
CTGCCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCCTCGGGCTCCCCTGGAAGGGCGCTGGGCTGGCGGGTCAG
CTGGTGGTTCTTAGGTTTCTTCTGTTTGTAAAGGGACAATGTGGCCACTTCTCTGTGGAAAGGGAGTTGGTT
GGGGGGTTGAGATGGCCCGTGTTCACTAAGTTCCTGTTTTGCACGATGTAAAAACCTGTCTTTTTTGACG
ATACAGCCAAAAGTATTGGCTGATTTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTGGGCTCAGG
CCAGCTGTTTGCAGTGTGGGAACCTCATAGGTTCTGTCTTTGTCTCTTCCCTTTCACCTCATTCTGGTAGCAGCAT
AAAGGTTAGGCAATCACTGGGACCCGCATGGTGTCTCTCAAAGAATAGGGTAAAGGAGAGCTGGGAGGGAGCCC
TCTCCGTTGGGTGACTCTTGTTGTGCCCTTTAGACAGGCTGGCCTGCCGTTCCACAGGGTACAGTTAGGACTTGA
GTCTTTCTTTTTCTGTTTTGAGTTGGTGAGTGAGTGATAGGGTAACATGGGCCCTCAGGATGACCCCTTGGAAC
GTGCCGAGTTCCCTAAATCTCAGCTGGGATCCTGGACCTGGGAGGCCCTGTGAGGGCCAGCTCTGGAAAAACCT
GGGAGTTGATGCCGGAGGCTGTGGAAGAATCTGCTCGAGGGCAGGGTGCCCTGGAACACTGGTAGTTCTGGGGC
TGGGAGGGAGAGGGCTCCGGCTTTCTCTGAAATGAACACTGCTCTTCAGCAGTTCAAGTACTTGTTCTCAAAC
ATTTTCTAATTGATTGGTAGGTTTTCTATAAGCATTGTTTCTTTAAGGCATGGAAAGGGAAGAATGCTCAAGCAAG
TCATGTTTGTTCAGTGGGATGGGCCCCGCTTCTCACTGCTGGGGGCTTCCCCTTCATGTGGCACCTTTGTGCC
AGGCCACCAGGCAGACTCTTCCACCTTCTCCCACTGAAGCACCAAGGGGCTTGAACCGTAATTTGGCTAATCAG
AGGCATTTTTTTGTCTAGTATCTTTCACACTTGTCCAACCGTCTTATTTTTTAAAGTTCTGTTGCTTGAT
TAACACGAACTAGAGAGAAATAGTTTCTGAAGCCAGTTTATTGTGAAGATCCCCAAGGGGGAGGTTCCGGTAGAG
AAAAATAGTAAGCTGGTTAGAACTGACGAGGGCAAACAGCCAGGACGCATTGGAGAGGAATTTGCCAAAGATC
TACCCTGAGATAACGCCTGTCCAGTGTCTTACCACGTGAATAACCAGCGCTCCAAAGTGTTTTCTGCTTTGAA
AAAAAAAATCCACAAGCTTTTAAAGGTGCATTTAAGAATCCATGTGACTTTAGAATGGAAC TGCCGGCCCTGG
CAACTGTACGTGTGCTAGAAGGTTGATGCCTCTGGAATGCATGTGATACTCATCTCCATTTTGTTTCCCTTGAT
TGCATTTTTGTCTTTTAGCAGATCTGTCCCTGTGGGTGGTGTCTAAGAAGTCGGACACCTTGTTTTTGTGTTA

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FIGURE 38B

GATTGAGCTGGGCAGCTGCAATCAGCTTCTTTATATGCAAATTAGGCACGACCCATCTGTGGTTCCTGGTTGGTG
GCTAATGAAGTGAGGGGAGGGAGGGATGTCACCCCAAAGTAGGCCCTCCATTGGCTTTGGCCAGGCCAGACAC
TTCACATCGTTTACATGGTTCTGTGTAATTTAAAGTTTATGTGTATAAAGCGAAGCTGTTTCTGTGAACTGTA
TATTTTGTAATAAATATATTGCTACTTTGAGGTTTCATGATTCAAGGTTTCAGGCGATTGCGTTCTGTGCTGAAGG
A

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FIGURE 39

MDSDSCAAAFHPEEYSPSCKRRRTVEDFNKFCTFVLAYAGYIPYPKEELPLRSSPSPANSTAGTIDSDGWDAGFS
DIASSVPLPVSDRCFSLQPTLLQRAKPSNFLDRKKTDKLKKKKKKRKRSDAPGKEGYRGGLLKLEAADPYVE
TPTSP TLQDIPQAPSDPCSGWSDTPSSGSCATVSPDQVKEIKTEGKRTIVRQKQVVFRDEDSTGNDEDIMVDS
DDDSWDLVTCFCMKPFAGRPMIECNECHTWIHLSCAKIRKSNVPEVFVCQKCRDSKFDIRRSNRSRTGSRKLF LD

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FIGURE 40

GACGGCTCCGGGCCGCCAGGGGCCGCTGTGGCGCAGCCGGGCTGGCCCCGCGCTGTCCCTGACGCGGATCACTGGC
CCCTCTTGAGCACGGCCTTGCCGTTTGGCGGGGTGAAAGGTTGCGAAGATGGCGACGGCCTTGAGCGAGGAGGA
GCTGGACAATGAAGACTATTACTCGTTGCTGAACGTGCGCAGGGAGGCCCTCTTCTGAAGAGCTGAAAGCTGCCTA
CCGGAGGCTCTGTATGCTCTACCATCCAGACAAGCACAGAGACCCAGAGCTCAAGTCACAGGCGGAACGACTGTT
TAACCTTGTTTACCAGGCTTATGAAGTGCTTAGTGACCCCCAAACCAGGGCCATCTATGATATATATGGGAAGAG
AGGACTGGAAATGGAAGGATGGGAGGTTGTGGAAAGGAGGAGAACCCCTGCTGAAATTCGAGAGGAGTTTGAGCG
GCTGCAGAGAGAGAGAAGAGAGGAGATTGCAGCAGCGAACCATCCCAAGGGAACGATCAGCGTTGGAGTAGA
TGCCACCGACCTTTTTTGATCGCTATGATGAGGAGTATGAAGATGTGTCCGGCAGTAGCTTTCCGCAGATTGAAAT
TAATAAAATGCACATATCCAGTCCATTGAGGCACCCCTTGACAGCGACAGACACAGCCATCCTCTCTGGAAGCCT
CTCAACCCAGAATGGAAATGGAGGAGGTTCCATTAACTTTGCGCTCAGACGAGTAACCTTCGGCAAAGGGATGGGG
AGAGTTGGAATTTGGAGCTGGAGACCTACAGGGGCCTTTGTTCGGTCTCAAGCTGTTCCGTAATCTCACACCAAG
ATGCTTTGTGACAACAACTGTGCTCTGCAGTTTTTCATCCCGTGGAATCCGACCCGGCCTGACCACTGTCTTAGC
TCGGAACCTAGACAAGAACACCGTGGGCTACCTGCAGTGCGATGGGGTATCCAGTCAGCCATGAACACTAGCAT
CGTCCGAGACACTAAAACCAGCCACTTCACTGTGGCCCTGCAGCTGGGAATCCCTCACTCCTTTGCACTGATCAG
CTATCAGCACAAATTCGAAGATGACGATCAGACTCGTGTGAAAGGATCCCTCAAAGCAGGCTTCTTTGGGACGGT
GGTGGAGTACGGAGCTGAGAGGAAGATCTCCAGGCACAGCGTTTTGGGTGCAGCTGTCAGCGTTGGAGTTCCACA
GGGTGTTTTCTCTCAAAGTCAAGCTCAACAGGGCCAGTCAGACATACTTCTTCCCTATTCACTTGACGGACCAGCT
TCTGCCCAGCGCCATGTTCTATGCCACCGTGGGGCCTCTAGTGGTCTACTTTGCCATGCACCGTCTGATCATCAA
ACCATACCTCAGGGCTCAGAAAGAGAAGGAATTGGAGAAGCAGAGGGAAAGCGCCGCCACCGATGTGCTGCAGAA
GAAGCAAGAGGCGGAGTCCGCTGTCCGGCTGATGCAGGAATCTGTCCGAAGGATAATTGAGGCAGAAGAGTCCAG
AATGGGCCTCATCATCGTCAATGCCTGGTACGGGAAGTTGTCAATGACAAGAGCAGGAAGAGCGAGAAGGTGAA
GGTGATTGACGTGACTGTGCCCTGCAGTGCCTGGTGAAGGACTCGAAGCTCATCCTCACGGAGGCCTCCAAGGC
TGGGCTGCCTGGCTTTTTATGACCCGTGTGTGGGGGAAGAGAAGAACCTGAAAGTGCTCTATCAGTTCCGGGGCGT
CCTGCATCAGGTGATGGTGTGACAGTGAGGCCCTCCGGATACCAAAGCAGTCCCACAGGATCGATACAGATGG
ATAAACTGCCAAGAACCAGATTTTTTAAAGGCCGCAAAAATCTTTTCTGGGAGTCTACAAATTTGGAAATGAA
AAAACCCAGACATCAGATGTTTTTATTTTATATTATTATATAGAAGGTGGTACCATTATCAATTATGTGAAGGG
ACATGCAGACACCCAGCTTTTGAGGGTGTGAGGGTAGGACTGAGGCAGCCCCACTGGGAACCAGACTGCAGCC
TGGCCCATGGCTGTTTTCCCAAGGATCAGTTCCTGGAGGGAAGGGCTCTGGCCCTGACTCCGCTGTGTCCCGAGC
ACACGTGTGACCCGAGCCCGCCGCCCTGTAGTTCTTGGCTGGGTCTGGAGGTGTCTGTGGAGCACCCCTGCCCTC
ACCACAGGAGCGTGAGCCACTTCTGCAGTCCACGCTGAACATGGGAAACAACCTGAAAAGCAGGCAGGCCTCCCG
GTCAGGGAGCCTCTGCTGTGCTGGCTTCCCATGACCACCTCCTCTTGCTGAAATATTACTGCTTGAATCTGGAGC
AGATTGCGGGTTTATAAACTGCTTTTTATCTGAGAACAACGGGTTTGGAATTAGTCGTCTTTTTTCCCACT
CCCAGAGCTGCTCAAGTCATTCCACCGCCCCCTCGGCTTGGGACAGGGTAGTGTAACCTCCCGATCCCAGGGCCT
AGCCCTGACACAGGTGGCTTCCCGTATCCCGGTGGGAAAACGCCCTGCCACCAGCGGGCTTGAGCTGGCCTGTGT
CCCTCCACCGCCTGCACCACCCACCTCCAGAGTGCAGTGTGGGCAAGGGCAGCTCAAGAGGACAGGACCAGGCG
CTTGGCAAGACATCAGACACACCCAACCCAAAGGCGTGGACCCAGGCCCGGCCGTGGTACCCAGCAGGTGGCA
CTGCAGCTCCCCGCTCCTGCAGGTCCAGCGTCTCACAGGAACACCAGGGCCTGTGCTCCGGAGCCTTCCTTCAG
ACCTTCTCTCCAGTGCCCACTTGGGATGCAGAATGCAGCGGAGCTAGGACCCCTCCACGGCCTGGACCTCGGC
TGCAGTAAAGTTACGTGAGGCCTGTCTCTCGGGGCTTGAAGTGGCAGCCATCAGTTGCTCTTGCTGACCCCTCG
GAGCAAGCGCCGCACAGGTGGTGGCTGAGACAGCTGGCGCGGGGGGCCCCAAGCTGCGCCGGCCTCCAGCCCACC
CACAGCTGTTGCTGAAGTCAGGCCTCCCTCCCCAGCACTGGTATCTGAGTAACGGCTAAGAACCTCCTTCCTCTG
GTTTTGAAAAGCAGTTCGGGTTGTCCAATTCTGTAACTTATCTCCATTTTTTAAAAAGGTTTCTCTGACGGCC
CCACGGCCCGAGCCGCGGTGAGCGTCGTGTGCATGAGCCTGGGCCCCGGGCTTCCCGTGCAGCCTCTGCCGCAGG
TGCTTCTGGGCACCCATCCTCTGCGTTTCATTTGCAGTGCAGTGTACAGAAGGCACCTACCACAATAAACCTTTC
CTGAAAGC

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FIGURE 41

TGCGAGGCAGAGTGCTAGCGGGAGCGCGAGCCAGCAAGAGGCGCCTGCGCGATGTCCGGGGCCCCTGAGCCCGCGG
CGCTGAGCCAGCCGGGACGGACATGCGCGGGAGGGCGCCGCGGGGCGAGCCGCCGCTCCTCCGGGGGAATGAAAGC
TACTGGTTGATTTTAAAGTGCCTGGGCCTCACAGGTTTGGAGATGTCCCAGAATAAGGCACAATGTCAATAGCAG
GAGTTGCTGCTCAGGAGATCAGAGTCCCATTTAAAACTGGATTTCTACATAATGGCCGAGCCATGGGGAATATGA
GGAAGACCTACTGGAGCAGTCGCAGTGAGTTTAAAAACAACCTTTTTAAATATTGACCCGATAACCATGGCCTACA
GTCTGAACTCTTCTGCTCAGGAGCGCCTAATACCACCTTGGGCATGCTTCCAAATCTGCTCCGATGAATGGCCACT
GCTTTGCAGAAAATGGTCCATCTCAAAGTCCAGCTTGCCCCCTCTTCTTATTCCCCCAAGTGAAAACCTTGGGAC
CACATGAAGAGGATCAAGTTGTATGTGGTTTTAAGAACTCACAGTGAATGGGGTTTGTGCTTCCACCCCTCCAC
TGACACCCATAAAAACTCCCCCTTCCCTTTTTCCCTGTGCCCCCTCTTTGTGAACGGGGTTCTAGGCCTCTTCCAC
CGTTGCCAATCTCTGAAGCCCTCTCTCTGGATGACACAGACTGTGAGGTGGAATTCCTAAGTCTAGCTCAGATACAG
ACTTCCTTTTAGAAGACTCTACACTTTCTGATTTCAAATATGATGTTCTTGGCAGGCGAAGCTTCCGTGGGTGTG
GACAAATCAACTATGCATATTTTGATACCCAGCTGTTTCTGCAGCAGATCTCAGCTATGTGTCTGACCAAAATG
GAGGTGTCCAGATCCAAATCCTCCTCCACCTCAGACCCACCGAAGATTAAGAAGGTCTCATTGGGACCAGCTG
GCTCCTTTAACAAGCCAGCCATAAGGATATCCAAGTGTGTATACACAGAGCTTCTCCTAAGTCCGATGAAGACA
AACCTGAGGTTCCCCCAGAGTTCCCATACCTCCTAGACCAGTAAAGCCAGATTATAGAAGATGGTCAGCAGAAG
TTACTTCGAGCACCTATAGTGATGAAGACAGGCCTCCCAAAGTACCGCCAAGAGAACCTTTGTCACCGAGTAACT
CGCGCACACCGAGTCCCAAAGCCTTCCGTCTTACCTCAATGGGGTCATGCCCCGACACAGAGCTTTGCCCTG
ATCCCAAGTATGTGAGCAGCAAGCACTGCAAAGACAGAACAGCGAAGGATCTGCCAGTAAGGTTCTTGCATTCT
TGCCCATTATTGAAAATGGGAAGAAGGTTAGTTCAACACATTATTACCTACTACCTGAACGACCACCATACTGG
ACAAATATGAAAATTTTTTAGGGAAGCAGAAGAAACAAATGGAGGCGCCCAAATCCAGCCATTACCTGCTGACT
GCGGTATATCTTCAGCCACAGAAAAGCCAGACTCAAAAACAAAAATGGATCTGGGTGGCCACGTGAAGCGTAAAC
ATTTATCCTATGTGGTTTCTCCTTAGACCTTGGGGTCATGGTTCAGCAGAGGTTACATAGGAGCAAATGGTTCTC
AATTTTCCAGTTTGATTGAAGTGAGAGAAAAATCCCTTAGATTGCAAAATAAAATAGTTGAACTCTCTGTCTTC
ATGTGGAAGGTTTAGAGCAGTTGTGAGATGCTGTTATGCTGAGAAACCTGACTTTGTTAGTGTGGAAAAAAGT
CTTACAAGTCTATAATTTAAAGATGTGATGGTGGGGAGGGGAGGATGGGGAAGCTTTTTATATATGCATACATTA
CATACCTATATATAAACTTGTGGTATAACCATAGACCATAGCTGCAGGTTAACCAATTAGTTACTATCGTAGAGT
AATATATATTGAGAATAATAAACTCAAGCTGGAGAAATGAGTCCTGATAGACTGAAAATTGAGCAAATGGAAGAA
GATACAGTATTGTTTAGATCAGAATCATTAAAAAATATTTTTGTTTAGTAAGTTTGAAGATTTCTGGCTTTTAGG
CCTTTTCTATTTTGTTCATTTATTTTTGCAGGCAATCTTTTCCATGGAGGGCAGGGTATCCATTCTTTACCATG
GGTGTACCTGCTTAGGTTAAAAATCATACCAAGGCCTCATACTTCCAGGTTTCATGTTGCGTCTTGTGAGGGAG
GGAGAGCAGGTTACTTGGCAACCATATTGTACCTGTACCTGTACACATCTTGAAAAATAAAACGATAATAGAA
CTAGTGACTAATTTTCCCTTACAGTTTCTGCTTGGTCCCACCCACTGAAGTAGCTCATCGTAGTGCGGGCCGTAT
TAGAAGCAGTGGGGTACGTTAGACTCAGATGGAAAAGTATTCTAGGTGCCAGTGTTAGGATGTCAGTTTTACAAA
ATAATGAAGCAATTAGCTATGTGATTGAGAGTTATTGTTTGGGGATGTGTGTTGTGGTTTTGCTTTTTTTTTTTT
AGACTGTATTAATAAACATACAACACAAGCTGGCCTTGTGTTGCTGGTTCTTATTCAGTATTTCTGCGGATTGT
TTGCTTTTTAAGTAAACACTTCTGACCCATAGCTCAGTATGTCTGAATTCAGAGGTCACATCAGCATCTTCT
GCTTTGAAAACCTCTCACAGCTGTGGCTGCTTCACTTAGATGCAGTGAGACACATAGTTGGTGTTCGGATTTTCAC
ATCCTTCCATGTATTTATCTTGAAGAGATAAGCACAGAAGAGAAGGTGCTCACTAACAGAGGTACATTACTGCAA
TGTTCTCTTAACAGTTAAACAAGCTGTTTACAGTTTAACTGCTGAATATTATTTGAGCTATTTAAAGCTTATTA
TATTTTAGTATGAATAAATGAAGGTTAAACATGCTTAAGAAAAATGCACTGATTTCTGCATTATGTGTACAGT
ATTGGACAAAGGATTTTATTCATTTTGTGCTTATTTGAATATTGCTTTTTTCAATTTAATAAAGTTATAATAC
TTAAAAA

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FIGURE 42

GAATTCGGCACGAGATAAAAAATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGA
CGGTCATCCCTGTAGATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAG
TACAGTGTAGCCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAGAGGGACCATATGATG
TGGTGGTTCTACCAGGAGGTAATCTGGGCGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG
AGCAGGAAAACCGGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCCTACTGCTCTGTTGGCTCATGAAATAGGTT
GTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACCTACTCTGAGA
ATCGTGTGAAAAAGACGGCCTGATTCTTACAAGCCGGGGGCCTGGGACCAGCTTCGAGTTTGCGCTTGCAATTG
TTGAAGCCCTGAATGGCAAGGAGGTGGCGGCTCAAGTGAAGGCTCCACTTGTTCTTAAAGACTAGAGCAGCGAAC
TGCGACGATCACTTAGAGAAACAGGCCGTTAGGAATCCATTCTCACTGTGTTTCGCTCTAAACAAAACAGTGGTAG
GTTAATGTGTTTCAAGAGTCGCTGTCCTTACTACTTTTTGCGGAAGTATGGAAGTCACAACTACACAGAGATTTCTC
AGCCTACAAATTGTGTCTATACATTTCTAAGCCTTGTTTGCAGAATAAACAGGGCATTTAGCAAACATAAAAAAA
AAAAAAAAAACTCGAG

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FIGURE 43

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLED AKKEGPYDVVVLPGG
NLGAQNLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGCGSKVTTHPLAKDKMMNGGHYTYSEN RVEKDG
LILTSRGPGTSTFEFALAIVEALNGKEVAAQVKAPLVLKD

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FIGURE 44

CTCTAAAGCGCCGCAGCTGCCAAAATGTCTACAGGTCCAAGTCTGCCACTGGCAGTAATCGAAGACTTCAGCAG
ACACAAAATCAAGTAGATGAGGTGGTGGACATAATGCGAGTTAACGTGGACAAGGTTCTGGAAAGAGACCAGAAG
CTCTCTGAGTTAGACGACCGTGCAGACGCACTGCAGGCAGGCGCTTCTCAATTTGAAACGAGCGCAGCCAAGTTG
AAGAGGAAATATTGGTGGAAGAATTGCAAGATGTGGGCAATCGGGATTACTGTTCTGGTTATCTTCATCATCATC
ATCATCGTGTGGGTTGTCTCTTCATTGAAGAACCAGCGGAAGTCAAAAGTCTGTTCAAGAAACCTCTTCAAGACT
TTTGACTTAGAACCTGCTATATTATCAAGCTTACCTACTGTTATCTCTAAAATTTTTTTTTGTGTTAATGTAAAGT
TGAATTTCTAGGAAACGTGCCTTTGTTTTTAAATATGCACTCCAAATTAGAAGGCCGGCCCCGTCCACATTTTGC
ACAGTGCCTTTACAGATTTACGTATGGGCTGATGAAGAGGCCTTCTTAAGTTCAGAGTGCTATAATCTAGATGT
AATGTTGTCACTAATTAATTGCCATTACTCCCTTTAG

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FIGURE 45

MSTGPTAATGSNRRLQQTQNQVDEVVDIMRVNVDKVLERDQKLSLDDRADALQAGASQFETSAAKLKRKYWWKN
CKMWAIGITVLVIFIIIIIVWVSS

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FIGURE 46

GCTGCGGGTCTTTCCCTCACTCGTCCTCCGCGCGTCGCCGCTCTTCGGTTCTGCTCTGTCCGCCGCCATGGCCCA
AGCTGACATCGCGCTGATCGGATTGGCCGTCATGGGCCAGAACTTAATTCTGAACATGAATGACCACGGCTTTGT
GGTCTGTGCTTTTAATAGGACTGTCTCCAAAGTTGATGATTTCTTGGCCAATGAGGCAAAGGGAACCAAGTGGT
GGGTGCCCAGTCCCTGAAAGAGATGGTCTCCAAGCTGAAGAAGCCCCGGCGGATCATCCTCCTGGTGAAGGCTGG
GCAAGCTGTGGATGATTTTCATCGAGAAATTGGTACCATTGTTGGATACTGGTGACATCATCATTGACGGAGGAAA
TTCTGAATATAGGGACACCACAAGACGGTGCCGAGACCTCAAGGCCAAGGGAATTTTATTTGTGGGGAGCGGAGT
CAGTGGTGGAGAGGAAGGGGCCCCGGTATGGCCCATCGCTCATGCCAGGAGGGAACAAAGAAGCGTGGCCCCACAT
CAAGACCATCTTCCAAGGCATTGCTGCAAAAAGTGGGAACTGGAGAACCCTGCTGTGACTGGGTGGGAGATGAGGG
AGCAGGCCACTTCGTGAAGATGGTGACAAACGGGATAGAGTATGGGGACATGCAGCTGATCTGTGAGGCATACCA
CCTGATGAAAGACGTGCTGGGCATGGCGCAGGACGAGATGGCCCAGGCCTTTGAGGATTGGAATAAGACAGAGCT
AGACTCATTCTGATTGAAATCACAGCCAATATTCTCAAGTTCCAAGACACCGATGGCAAACACCTGCTGCCAAA
GATCAGGGACAGCGCGGGGCGAGAAGGGCACAGGGAAGTGGACCGCCATCTCCGCCCTGGAATACGGCGTACCCGT
CACCTCATTGGAGAAGCTGTCTTTGCTCGGTGCTTATCATCTCTGAAGGATGAGAGAATTCAAGCTAGCAAAAA
GCTGAAGGGTCCCCAGAAGTTCCAGTTTGATGGTGATAAGAAATCATTCTGGAGGACATTTCGGAAGGCACTCTA
CGCTTCCAAGATCATCTCTTACGCTCAAGGCTTTATGCTGCTAAGGCAGGCAGCCACCGAGTTTGGCTGGACTCT
CAATTATGGTGGCATCGCCCTGATGTGGAGAGGGGGCTGCATCATTAGAAGTGTATTCTAGGAAAGATAAAGGA
TGCAATTTGATCGAAACCCGGAACCTTCAGAACCTCCTACTGGACGACTTCTTTAAGTCAGCTGTTGAAAAGTGCCA
GGACTCCTGGCGGGCGGGCAGTCAGCACTGGGGTCCAGGCTGGCATTCCCATGCCCTGTTTTACCACTGCCCTCTC
CTTCTATGACGGGTACAGACATGAGATGCTTCCAGCCAGCCTCATCCAGGCTCAGCGGGATTACTTCGGGGCTCA
CACCTATGAACCTTTGGCCAAACCAGGGCAGTTTATCCACACCAACTGGACAGGCCATGGTGGCACCGTGTCTATC
CTCGTCATACAATGCCTGATCATGCTGCTCCTGTACCCCTCCACGATTCCACAGACCAGGACATTCCATGTGCCT
CATGGCACTGCCACCTGGCCCTTTGCCCTATTTTCTGTTTCAAGTTTTTTTAAAGTGTGTGTAAGAGACTCCTGAGGA
AGACACACAGTTTATTTGTAAAGTAGCTCTGTGAGAGCCACCATGCCCTCTGCCCTTGCCTCTTGGGACTGACCA
GGAGCTGCTCATGTGCGTGAGAGTGGGAACCATCTCCTTGCGGCAGTGGCTTCCGCGTGCCCCGTGTGCTGGTGC
GGTTCCTATCACGCAGACAGGAAGGGTGTGTCGCACTCTGATCAACTGGAACCTCTGTATCATGCGGCTGAATT
CCCTTTTTCTTTACTCAATAAAAGCTACATCAGACTG

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FIGURE 47

MAQADIALIGLAVMGQNLILNMNDHGFVVCAFNRTVSKVDDFLANEAKGTKVVGAQSLKEMVSKLKKPRRIILLV
KAGQAVDDFIEKLVPLLDITGDIIDGGNSEYRDTTRRCRDLKAKGILFVGSGVSGGEEGARYGPSLMPGGNKEAW
PHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLGMAQDEMAQAFEDWNK
TELDSFLIEITANILKFQDITDGKHLFPKIRDSAGQKGTGKWTASALEYGVVPTLIGEAVFARCLSSLKDERIQA
SKKLKGPQKFQFDGDKKSFLDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYGGIALMWRGGCIIRSVFLGK
IKDAFDRNPELQNLILLDDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQAQRDYF
GAHTYELLAKPGQFIHTNWTGHGGTVSSSSSYNA

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FIGURE 48

CGCCGCTCCGGCCTCCCGCGACTTCTCGAAGGTGGGCAGGTCCCACCTTGTGGAGGATGGAGGTGACCGGGGACG
CCGGGGTACCAGAATCTGGCGAGATCCGGACTCTAAAGCCGTGTCTGCTGCGCCGCAACTACAGCCGCGAACAGC
ACGGCGTGGCCGCCTCCTGCCTCGAAGACCTGAGGAGCAAGGCCTGTGACATTCTGGCCATTGATAAGTCCCTGA
CACCAGTCACCCTTGTCTGGCAGAGGATGGCACCATAGTGGATGATGACGATTACTTTCTGTGTCTACCTTCCA
ATACTAAGTTTGTGGCATTGGCTAGTAATGAGAAATGGGCATACAACAATTGAGATGGAGGTACAGCTTGGATTT
CCCAAGAGTCCTTTGATGTAGATGAAACAGACAGCGGGGCGAGGTTGAAGTGGAAGAATGTGGCCAGGCAGCTGA
AAGAAGATCTGTCCAGCATCATCCTCCTATCAGAGGAGGACCTCCAGATGCTTGTGACGCTCCCTGCTCAGACC
TGGCTCAGGAACCTACGTGAGGTTGTGCCACCGTCCAGCGGCTGCAGCACACACTCCAACAGGTGCTTGACCAAA
GAGAGGAAGTGCCTCAGTCCAAGCAGCTCCTGCAGCTGTACCTCCAGGCTTTGGAGAAAGAGGGCAGCCTCTTGT
CAAAGCAGGAAGAGTCCAAAGCTGCCTTTGGTGAGGAGGTGGATGCAGTAGACACGGGTATCAGCAGAGAGACCT
CCTCGGACGTTGCGCTGGCGAGCCACATCCTTACTGCACTGAGGGAGAAGCAGGCTCCAGAGCTGAGCTTATCTA
GTCAGGATTTGGAGTTGGTTACCAAGGAAGACCCCAAAGCACTGGCTGTTGCCTTGAAGTGGGACATAAAGAAGA
CGGAGACTGTTGAGGAGGCTGTGAGCGGGAGCTCGCCCTGCGCCTGCAGCAGACGCAGAGCTTGCATTCTCTCC
GGAGCATCTCAGCAAGCAAGGCCTCACCACCTGGTGACCTGCAGAATGCTAAGCGAGCCAGACAGGATCCCACAT
AGCAGCAGCGGGAAGTGTGCCAAGGAAGCTCTGTGGCGTTGTGTTATTGGTAGACACCCTCAGCCTCATCATTTG
ACTACCTATGTACTACTCTACCCCTGCCTTAGAGCACCTTCCAGAGAAGCTATTCCAGGTCTCAACATACGCCG
TTCCACCAATTTTTTTTTTAGCCCCACCAGCTTCAGGACTTCTGCCAATTTTGAATGATATAGCTGCACCAACAA
TATCCCGCTCCTCTAATTACATATGATGTTCTCTGTTCAAAAGTAATTGGCAGTGATTGGCCAGGCGCAGTGGC
TCACGCCTGTAATCCAGCACTGGGAGGCCGAGGGGGGCGGATCGTGAAGTCAGGAGATCGAGACCATCCTGGCT
AACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGCCAGCCATGGTGGCGGGCGCCTGTAATCCC
AGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCTGGGAGGCAGAGCTTGCAGTGAGCTGAGATTGCGCC
ACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 49

MEVTGDAGVPESGEIRTLKPCLLRNYSREQHGVAASCLEDLRSKACDILAIKSLTPVTLVLAEDGTIVDDDDY
FLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVDETDGAGLKWKNNVARQLKEDLSSIILLSEEDLQMLV
DAPCSDLAQELRQSCATVQRLQHTLQQVLDQREEVRQSKQLLQLYLQALEKEGSLLSKQEESKAAFGEEVDAVDT
GISRETSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAVALNWDIKKTETVQEACERELALRLQQT
QSLHSLRSISASKASPPGDLQNPKRARQDPT

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FIGURE 50

CGGCGGAGCTGGTCCCGTTGTGCTGCGGCGCCGCGCGGCCTGCAGTCCCGGGCCCGCGCCCCGCGCCGCCCCGCC
GCCCCGCCATGGAGCCCCGGCCCCGACGGCCCCGCGCCTCCGGCCCCGCGCCATCCGCGAGGGCTGGTTCCGCGA
GACCTGCAGCCTGTGGCCCGGCCAGGCCCTGTCTGCTGCAGGTGGAGCAGCTGCTCCACCACCGGCGCTCGCGCTA
CCAGGACATCCTCGTCTTCCGCAGTAAGACCTATGGCAACGTGCTGGTGTTGGACGGTGTCTATCCAGTGCACGGA
GAGAGACGAGTTCTCCTACCAGGAGATGATCGCCAACCTGCCTCTCTGCAGCCACCCCAACCCGCGAAAGGTGCT
GATCATCGGGGGCGGAGATGGAGGTGTCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTGGTCCAGTG
TGAGATCGACGAGGATGTCTCAAGTCTCCAAGAAGTTCTGCCAGGCATGGCCATTGGCTACTCTAGCTCGAA
GGTGACCTACATGTGGGTGACGGTTTTGAGTTTCATGAAACAGAATCAGGATGCCTTCGACGTGATCATCACTGA
CTCCTCAGACCCCATGGGCCCCGCCGAAAGTCTCTTCAAGGAGTCCTATTACCAGCTCATGAAGACAGCCCTCAA
GGAAGATGGTGTCTCTGCTGCCAGGGCGAGTGCAGTGGCTGCACCTGGACCTCATCAAGGAGATGCGGCAGTT
CTGCCAGTCCCTGTTCCCCGTGGTGGCCTATGCCTACTGCACCATCCCCACCTACCCAGCGGCCAGATCGGCTT
CATGCTGTGCAGCAAGAACCCGAGCACGAACCTCCAGGAGCCGGTGCAGCCGCTGACACAGCAGCAGGTGGCGCA
GATGCAGCTGAAGTACTACAACCTCCGACGTGCACCGCGCCGCTTTGTGCTGCCCCGAGTTTGGCCGCAAGGCCCT
GAATGATGTGAGCTTGAGCCCCAGGCGCCACCCTGATGCCACCCAGGACCTCGGACCTTGGAGCCTGCGGGGTGCC
TCGGCCCCCTCCAGCCCCGGGCCGGACCTCCTGCTGGCTCTCGCCCACCAACCAAGTGTTACAAGCCCCAGAATGC
TGCCCGGCCTGCCCTGCTGGGCGGACTGTCTGTGTGTCTGTCTCTCTGGCGTTCCACCTCCAAGCCTATACCAGC
TGTGTACAGCGCCATCTCTCTGCCTTCTGTTGCCCCCG

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FIGURE 51

MEPGPDGPAASGPAAIREGWFRETCSLWPGQALSLOVEQLLHHRRSRYQDILVFRSKTYGNVLVLDGVIQCTERD
EFSYQEMIANLPLCSHPNPRKVLIIGGGDGGVLREVVKHPSVESVVQCEIDEDVIQVSKKFLPGMAIGYSSSKVT
LHVGDGFEFMKQNQDAFDVIIITDSSDPMGPAESLFKESYYQLMKTALKEDGVLCCQGECEWLHLDLIKEMRQFCQ
SLFPVVAYAYCTIPTYPGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMQLKYYNSDVHRAAFVLPEFARKALND
VS

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FIGURE 52

AGGCGCAGGCGCAGGCGAGGGGCTGGGTGGCGGTTGAGACAGCGGCGGTACTGGGAGGCGTAGGTGAGGGTCGCG
AGGCTGCCCCGAGCTTCTGAGCGAGCGCGGTGCTTTTGGGAACGCGGGACGGGCGATCTGCGGCGCCAGGAGCTGG
GCCGAGGCGCGGCGGCGCGGCTGCCGGCTGCCCTGTGAATGGGAAGTTACGCGAAGTCCACCCAGCGTTTCTGAG
GCAATCTGAAGGCAAATCCTGTTTAGACCCAGGCGAAGGTTCCCGGTGACCCGGGCTCTCACCAGCCAATTGTCC
CTTGCCGTCCTCCTGAGGGTGCCTGGAGCTTAAGCACTGTGTGCTCTTGGCCTCCACACTGGGGATGCGCTGAC
TCCCACTGTCCAGGGCTTCCAGTGGATTCTCCGAGGCCCTGATGTAGAACTTCCCCATTGGGTGCACCAAGAGC
AGCCTCACATGGTGTGGGCTGACATCAAGAGCTGCCAGATCCAACAGGAAGATGGCCAATCTTTCCTAAGCTGCT
CACCTTACAAGAAAACGAATCGTACTGCTAAGAATTCAAACCTTACAGCAGTCATGGGGAGCCTTGGAAGGAGCCCG
AATCACTGATGGAATTGGACAGTGCATGGAGATGGTTCAGCAGGACAAGGGTAAGTGCAGGGGCAAGTCCAGGTC
ATACTGAGAGACAACGAGTGGCGCTGACAGAGACAGACAAAGATAAAATCAAAGTTTGTGCTTCATCTTCAAAA
ACTCAAATAATAACAACTTGGCCTT

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FIGURE 53

MPLTPTVQGFQWILRGPDVETSPLGAPRAASHGVG

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FIGURE 54

CTGCGCCCGCGACGGAGGCGCGCTTCAAAGCGCAGGCGCGGGGAGGGGGTGGGGGAGGAGGGAAAGCGGCGAGTA
AGATGGAAGATGAGGAGGTGCTGAGAGCTGGGAAGAGGCGGCAGACAGCGGGGAAATCCAAATCTCCTCCCAA
GTGCCCATTGTGATTCAGGACGATAGCCTTCCCGCGGGGGCCCCCTCCACAGATCCGCATCCTCAAGAGGCCCACC
AGCAACGGTGTGGTCAGCAGCCCCAACTCCACCAGCAGGCCCACCCTTCCAGTCAAGTCCCTAGCACAGCGAGAG
GCCGAGTACGCCGAGGCCCCGGAAGCGGATCCTGGGCAGCGCCAGCCCCGAGGAGGAGCAGGAGAAAACCCATCCTC
GACAGGCCAACCCAGGATCTCCCAACCCGAAGACAGCAGGCAGCCCCAATAATGTGATCAGACAGCCTTTGGGTCTC
GATGGGTCTCAAGGCTTCAAACAGCGCAGATAAATGCAGGCAAGAAAAGATGCCGCCGTTGCTGCCGTCACCGCC
TCCTGGGTTCGTCCGCCACGGGTTGCACTGCCGTGGCAGACAGCTGGACTTGAGCAGAGGGAACGACCTGACTTAC
TTGCACTGTGATCCCCCTTGCTCCGCCACTGTGACCTTGAACCCCATGCACTGTGACCTCCCCCTTCTCCCCC
TTCCCACTGTGATTGGCACATCGACAAGGGCTGTCCCAAGTCAATGGAAAGGGAAAGGGTGGGGTTAGGGGAAG
GTTGGGGGGACCCAGCAAGGACTCAGAGAGTCAGACAGTGCCACTTGCCCACTTGGGGTAAAGCCAGTGCCAGCA
ATAACAGTTTATCATGCTCATTAATTTGGGATTTCAAACACAAATGAAAACACACCCACCCACCCCAAGTG
CATGTCTCCATCACTTAAAAAGTAAGTTCCATTTGAAAATATCCTTTCTTTTTTTTTCTTCTATTTTTGTTTG
TTTATACAAATATCTGATTTGCAAGAAAAAGTGCATGGGAGGGGTTTTAGTGGTTTAAATGAATTTTAATTAAGA
AAGGGTAGTTTGGTAGTCTACTTAAAAATGTTTCTGGGAAATTCAGTAGAAACATTAACCAATAGGATTTTGGTG
AGCTTAGCTTCTGTATTCCTACTGCCGCCAGAAAAGGGGCAGGGCTCTGCAGCCGCCAGGACAGACGAGCACCC
CATGCCATACCTCCCTCCCCGAGCTAAGTCCCAGGGCATCTGGGCCTTGCCCTGGAGACTGGGCTAGCTCTGTAG
GCTCGGAGAGCCTGGGGAGGGTGCCAACCCACCTCTAGTATTTTGGGAGATAGGGAAAGTGAACCGACTTCCCC
TTCCCATACCCCTCAGGGTGGTTCCCTACCAGCCAGGCTTACTACTTCTAGAAGAAAGCAGAGTGCCAGGGAGTG
AGATTGCATCCCTGGGCTTAGAAGTGACGGAGAGAAGACTTGTTTAGTATTTTGCCATCAGCACAAAGGAAAACCA
GGAGAGAGTCTGCCTCCAGGACTCTGAGCCTTCTGCCTCGTATGTTTCAAGAGTGGATAGGTCTTCCCACTCCAG
CATGGCTTGAACCTTAGGGGTCTGCAGTGCTCCATCTCCATTGGTGGCCCCAGCTCAGTAACCTATACCTGGTAC
ATTTCTGTGTGCAATCAGTACCTTGAAGGCAGAACATTCTGAATAAAGTTGGAAAAAGAACA

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FIGURE 55

CCACCTGGCACTGCCCACCACCCTGTAGCAGTGTGCCAGCAGGAGAGTCTGTCCCTTTGCAGAGCTGCCCCGCCCTG
AAGCCCCCGAGCCCAGTGTGTCTGGACCTTTTCCCTGTIGCCCCAGAGGAGCTTCGGGCTCCTGGCAGCCGCTGG
TCCCTGGGGACCCCTGCCCCCTCTCCAAGGGTTGCTATGGCCATTATCCCCAGGAGGCTCAGATACAGAGATCACC
AGCGGGGGGATGCGGCCCAGCAGGGCTGGCAGCTGGCCACACTGTCTCTGGTGGCCAGCCCCAGCTCTGGAGGGA
CCCTGGAGTCCCCGACACACACAGCCACAGCGCCGGGGCCAGCCACGGCTCGGAGAAGAAGTCTGCCTGGCGCAAG
ATGCGGGTGTACCAGCGTGAAGAGGTCCCCGGCTGCCCCGAGGCCACGCTGTCTTCTAGAGCCTGGCCAGGTA
GTGCAAGAGCAGGCCCTGAGCACAGAGGAGCCCAGGGTGGAGTTGTCTGGGTCCACCCGAGTGAGCCTCGAAGGT
CCTGAGCGGAGGCGCTTCTCGGCATCGGAGCTGATGACCCGGCTGCACTCTTCTCTGCGCCTGGGGCGGAATTCA
GCAGCCCCGGGCACTCATCTCTGGGTGAGGCACCGGAGCAGCCCGGGAAGGGAAGCATCTGGAATGGAGGCTCGA
AGTGTAGAGATGAGCGGGGACCGGGTGTGCGGGCCAGCCCCTGGTGA CTACGAGAGGGCGATTGGTCCGAGCCC
AGGCTAGACACACAGGAAGAGCCGCCCTTTGGGGTCCAGGAGCACCACGAGCGGCGCCAGTCTCGATTCTCTCCTT
AACTCCGTCCTCTATCAGGAATACAGCGACGTGGCCAGCGCCCGCGAACTGCGGCGGCAGCAGCGCGAGGAGGAG
GGCCCCGGGGACGAGGCCGAGGGCGCAGAGGAGGGGCCGGGGCCGCCGCGGGCCAACCTCTCCCCCAGCAGCTCC
TTCCGGGCGCAGCGCTCGGCGCGAGGCTCCACCTTCTCGCTGTGGCAGGATATCCCCGACGTACGCGGCAGCGGC
GTCCTGGCCACGCTGAGCCTGCGGGACTGCAAGCTGCAGGAGGCCAAGTTTGAGCTGATCACTCCGAGGCCTCC
TACATCCACAGCCTGTCTGGTGGCTGTGGGCCACTTCTTAGGCTCTGCCGAGCTGAGCGAGTGTCTGGGGGCGCAG
GACAAGCAGTGGCTGTTTTCCAACTGCCCGAGGTCAAGAGCACCAGCGAGAGGTTCTG CAGGACCTGGAGCAG
CGGCTGGAGGCAGATGTGCTGCGCTTACGCTGTGCGACGTGGTGCTGGACCACTGCCCCGGCCTTCCGCAGAGTC
TACCTGCCCTATGTACCAACCAGGCCTACCAGGAGCGCACCTACCAGCGCCTGCTCCTGGAGAACCCCAAGTTT
CCTGGCATCCTGGCTCGCCTGGAGGAGTCTCCTGTGTGCCAGCGTCTGCCCTTACCTCCTTCTTATCCTGCC
TTCCAGAGGATACCCGCCTCAAGATGTTGGTGGAGAATCCTGAAGCGGACAGCACAGGGCTCTGAAGACGAA
GACATGGCCACCAAGGCCTTCAATGCGCTCAAGGAGCTGGTGCAGGAGTGCAATGCTAGTGTACAGTCCATGAAG
AGGACAGAGGAACCTCATCCACCTGAGCAAGAAGATCCACTTTGAGGGCAAGATTTTCCCGCTGATCTCTCAGGCC
CGCTGGCTGGTTCCGCATGGAGAGTTGGTAGAGCTGGCACCCTGCTG CAGCACCCCTGCCAAGCTGAAGCTG
TCCAGCAAGGCAGTCTACCTCCACCTCTTCAATGACTGCTTGCTGCTCTCTCGGCGGAAGGAGCTAGGGAAGTTT
GCCGTTTTTCGTCCATGCCAAGATGGCTGAGCTGCAGGTGCGGGACCTGAGCCTGAAGCTGCAGGGCATCCCCGGC
CACGTGTTCTCCTCCAGCTCCTCCACGGGCAGCACATGAAGCACCAGTTCTGCTGCGGGCCCGACGGAAAGT
GAGAAGCAGCGATGGATCTCAGCCTTGTGCCCCCTCAGCCCCCAGGAGGACAAGGAGGTCATCAGTGAGGGGGAA
GATTGCCCCCAGGTTCACTGTGTTAGGACATACAAGGCACTGCACCCAGATGAGCTGACCTTGGAGAAGACTGAC
ATCCTGT CAGTGAGGACCTGGACCAGTGACGGCTGGCTGGAAGGGGTCCGCCTGGCAGATGGTGAGAAGGGGTGG
GTGCCCCAGGCCTATGTGGAAGAGATCAGCAGCCTCAGCGCCCGCCTCCGAAACCTCCGGGAGAATAAGCGAGTC
ACAAGTGCCACCAGCAAACCTGGGGGAGGCTCCTGTGTGATGGGCAGCCATGGCCTAGGACCCCACTCCATGCCT
GGCTCCTGGATGGTCTGAGAGGGGCTGCAGTGTCTCCATTCCCCAAGCTGCTCCTGCTGGCACTTCGCTTCTGT
GGCCTTGGCATTGAGGGCACAGGCTGGACACAGGAATGGGGGCGCCTCCAGAGGGTCTCTCCGTCCTCATGCTCC
TCAGTGTCCACACTTCAAGGCCAAGGATAGTTTCTTCTCTGACATGGGGACCATAACAGGTGATCACTGATACC
TGGCAAAGACTGGGGCCCTCTCCTTTCTATGTCTCAATCCTGCCTGACTCTTGGTCTTCTGGCAGGGACCTGG
CTGGGGAACGTTCTGGTGCTGATGGTGCTGGGACCTATATGTATATTTATATATATCTGGGGTCTTGTCTACCAC
CTCC

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FIGURE 56

MDCGPPATLQPHLTGPPGTAHHFVAVCQQESLSFAELPALKPPSPVCLDLFPVAPEELRAPGSRWSLGTAPAPLQG
LLWPLSPGGSDEITSGGMRPSRAGSWPHCPGAQPPALEGPWSPRHTQPQRRASHGSEKKSAWRKMRVYQREEVP
GCPEAHAVFLEPGQVVQEALSTEEPRVELSGSTRVSLEGPERRRFSASELMTRLHSSLRLGRNSAARALISGSG
TGAAREGKASGMEARSVEMSGDRVSRPAPGDSREGDWSEPRLDTQEEPPLGSRSTNERRQSRFLNSVLYQEYSD
VASARELRRQQREEEGPGDEAEGAEEGPGPPRANLSPSSSFRAQRSARGSTFSLWQDIPDVRGSGVLATLSLRDC
KLQEAKEFELITSEASYIHSLSVAVGHFLGSAELSECLGAQDKQWLFSKLPEVKSTSERFLQDLEQRLEADVLRFS
VCDVVLHDHCPAFRRVYLPYVTNQAYQERTYQRLLENPRFPGILARLEESPVCQRLPLTSFLIILPFQRITRLKML
VENILKRTAQGSSEDEDMATKAFNALKELVQECNASVQSMKRTEELIHLSSKIHFEKGKIFPLISQARWLVRHGELV
ELAPLPAAPPAKLKLSSKAVYLHLFNDCLLSRRKELGKFAVFVHAKMAELQVRDLSLKLQGIPGHVFLQLLHG
QHMKHQFLLRARTSEKQRWISALCPSSPQEDKEVISEGEDCPQVQCVRTYKALHPDELTLKTDILSVRTWTSD
GWLEGVRLADGEKGWVPQAYVEEISSLSARLRNLRENKRVTSATSKLGEAPV

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FIGURE 57A

GAAGTTGCGCGCAGGCCGGCGGGCGGGAGCGGACACCGAGGCCGGCGTGCAGGCCGTGCGGGTGTGCGGGAGCCGG
GCTCGGGGGGATCGGACCGAGAGCGAGAAGCGCGGCATGGAGCTCCAGGCAGCCCCGCGCTGCTTCGCCCTGCTG
TGGGGCTGTGCGCTGGCCGCGGCGCGGCGGCGCAGGGCAAGGAAGTGGTACTGCTGGACTTTGCTGCAGCTGGA
GGGGAGCTCGGCTGGCTCACACACCCGTATGGCAAAGGGTGGGACCTGATGCAGAACATCATGAATGACATGCCG
ATCTACATGTACTCCGTGTGCAACGTGATGTCTGGCGACCAGGACAACCTGGCTCCGCACCAACTGGGTGTACCGA
GGAGAGGCTGAGCGTATCTTCATTGAGCTCAAGTTTACTGTACGTGACTGCAACAGCTTCCCTGGTGGCGCCAGC
TCCTGCAAGGAGACTTTCAACCTCTACTATGCCGAGTCGGACCTGGACTACGGCACCAACTTCCAGAAGCGCCTG
TTCACCAAGATTGACACCATTTGCGCCCGATGAGATCACCGTCAGCAGCGACTTCGAGGCACGCCACGTGAAGCTG
AACGTGGAGGAGCGCTCCGTGGGGCCGCTCACCCGCAAAGGCTTCTACCTGGCCTTCCAGGATATCGGTGCCTGT
GTGGCGCTGCTCTCCGTCCGTGTCTACTACAAGAAGTGCCCCGAGCTGCTGCAGGGCCTGGCCCACTTCCCTGAG
ACCATCGCCGGCTCTGATGCACCTTCCCTGGCCACTGTGGCCGGCACCTGTGTGGACCATGCCGTGGTGCCACCG
GGGGGTGAAGAGCCCCGTATGCACTGTGCAGTGGATGGCGAGTGGCTGGTGCCCATTTGGGCAGTGCTGTGCCAG
GCAGGCTACGAGAAGGTGGAGGATGCCTGCCAGGCCTGCTCGCCTGGATTTTTTAAGTTTGAGGCATCTGAGAGC
CCCTGCTTGGAGTGCCCTGAGCACACGTGCCATCCCTGAGGGTGCCACCTCCTGCGAGTGTGAGGAAGGCTTC
TTCCGGGCACCTCAGGACCCAGCGTCGATGCCTTGACACGACCCCCCTCCGCCCCACACTACCTCACAGCCGTG
GGCATGGGTGCCAAGGTGGAGCTGCGCTGGACGCCCCCTCAGGACAGCGGGGGCCGCGAGGACATTGTCTACAGC
GTCACCTGCGAACAGTGTGGCCGAGTCTGGGGAATGCGGGCCGTGTGAGGCCAGTGTGCGCTACTCGGAGCCT
CCTCACGGACTGACCCGCACCAAGTGTGACAGTGAGCGACCTGGAGCCCCACATGAACTACACCTTACCGTGGAG
GCCCCGAATGGCGTCTCAGGCCTGGTAACCAGCCGAGCTTCCGTACTGCCAGTGTGAGCATCAACCAGACAGAG
CCCCCAAGGTGAGGCTGGAGGGCCGAGCACCACCTCGCTTAGCGTCTCCTGGAGCATCCCCCGCCGAGCAG
AGCCGAGTGTGGAAGTACGAGGTCACTTACCGCAAGAAGGGAGACTCCAACAGCTACAATGTGCGCCGACCCGAG
GGTTTCTCCGTGACCTTGGACGACCTGGCCCCAGACACCACCTACCTGGTCCAGGTGCAGGCACTGACGCAGGAG
GGCCAGGGGGCCGGCAGCAAGGTGCACGAATTCCAGACGCTGTCCCCGAGGGATCTGGCAACTTGGCGGTGATT
GGCGGCGTGGCTGTGCGTGTGGTCTGCTTCTGGTGTGGCAGGAGTTGGCTTCTTTATCCACCGCAGGAGGAAG
AACCAGCGTGCCCGCCAGTCCCCGGAGGACGTTTACTTCTCCAAGTCAGAACAACCTGAAGCCCCGAAGACATAC
GTGGACCCCCACACATATGAGGACCCCCAACAGGCTGTGTTGAAGTTCCTACCGAGATCCATCCATCCTGTGTC
ACTCGGCAGAAGGTGATCGGAGCAGGAGAGTTTGGGGAGGTGTACAAGGGCATGTGAAGACATCCTCGGGGAAG
AAGGAGGTGCCGGTGGCCATCAAGACGCTGAAAGCCGGCTACACAGAGAAGCAGCGAGTGGACTTCTCGGCGAG
GCCGGCATCATGGGCCAGTTTCCAGCCACCACAACATCATCCGCTAGAGGGCGTCATCTCCAATACAAGCCCATG
ATGATCATCACTGAGTACATGGAGAATGGGGCCCTGGACAAGTTCTTCCGGGAGAAGGATGGCGAGTTTCCAGCGTG
CTGCAGCTGGTGGGCATGCTGCGGGGCATCGCAGCTGGCATGAAGTACCTGGCCAACATGAACTATGTGCACCGT
GACCTGGCTGCCCCGAACATCCTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCCTGTCCGCGTG
CTGGAGGACGACCCCCGAGGCCACCTACACCACCAAGTGGCGGCAAGATCCCCATCCGCTGGACCGCCCCGAGGCC
ATTTCTTACCGGAAGTTACCTCTGCCAGCGACGTGTGGAGCTTTGGCATTGTGATGTGGGAGGTGATGACCTAT
GGCGAGCGGCCCTACTGGGAGTTGTCCAACCACGAGGTGATGAAAGCCATCAATGATGGCTTCCGGCTCCCCACA
CCCATGGACTGCCCCCTCCGCCATCTACCAGCTCATGATGCAGTGTGGCAGCAGGAGCGTGCCCGCCGCCCAAG
TTCGCTGACATCGTCAGCATCCTGGACAAGCTCATTTCGTGCCCCTGACTCCCTCAAGACCTGGCTGACTTTGAC
CCCCGCGTGTCTATCCGGCTCCCCAGCAGAGCGGCTCGGAGGGGGTGCCCTTCCGCACGGTGTCCGAGTGGCTG
GAGTCCATCAAGATGCAGCAGTATACGGAGCACTTCATGGCGGCCGGCTACACTGCCATCGAGAAGGTGGTGCAG
ATGACCAACGACGACATCAAGAGGATTGGGGTGC GGCTGCCCGGCCACCAGAAGCGCATCGCCTACAGCCTGCTG
GGACTCAAGGACCAGGTGAACACTGTGGGGATCCCCATCTGAGCCTCGACAGGGCCTGGAGCCCCATCGGCCAAG
AATACTTGAAGAAACAGAGTGGCCTCCCTGCTGTGCCATGCTGGGGCACTGGGGACTTTATTTATTTCTAGTTCT
TTCCTCCCCCTGCAACTTCCGCTGAGGGGTCTCGGATGACACCCTGGCCTGAACTGAGGAGATGACCAGGGATGC
TGGGCTGGGCCCTCTTTCCCTGCGAGACGCACACAGCTGAGCACTTAGCAGGCACCGCCACGTCCCAGCATCCCT
GGAGCAGGAGCCCCGCCACAGCCTTCGGACAGACATATGGGATATTCCCAAGCCGACCTTCCCTCCGCCTTCTCC
CACATGAGGCCATCTCAGGAGATGGAGGGCTTGGCCCAGCGCCAAGTAAACAGGGTACCTCAAGCCCCATTTCTT
CACACTAAGAGGGGAGACTGTGAACCTTACTGGGTGAGACCCAAAGCGGTCCCTGTCCCTCTAGTGCCTTCTTTA
GACCCTCGGGCCCCATCCTCATCCCTGACTGGCCAACCCCTTGCTTTCCTGGGCCTTTGCAAGATGCTTGGTTGT

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FIGURE 57B

GTTGAGGTTTTTAAATATATATTTTGTACTTTGTGGAGAGAATGTGTGTGTGTGGCAGGGGGCCCCGCCAGGGCT
GGGGACAGAGGGTGTCAAACATTCGTGAGCTGGGGACTCAGGGACCGGTGCTGCAGGAGTGTCTTGGCCATGCCC
CAGTCGGCCCCATCTCTCATCCTTTTGGATAAGTTTCTATTCTGTCAGTGTTAAAGATTTTGTTTTGTGGACAT
TTTTTTCGAATCTTAATTTATTATTTTTTTTATATTTATTGTTAGAAAATGACTTATTTCTGCTCTGGAATAAAG
TTGCAGATGATTCAAACCG

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FIGURE 58

GGTGGGCTGTAGGAATGAGGAGGAACTTAGGGAGAAACAGCTAGTGGGGAGGTAGGGCCTGGGGGAGCCGCCCCCT
TGCCCCAAGAGAAGGAGCCAGAACCCCCGGATCTGCATGCAAGGCCTGCTCCATGCCTCGCTCACAGCAGCCCAT
CCCACAGCCCCGCCCCGGTGGGGCAGGCAACATCAAGACCCTAGGAGACGCCTATGAGTTTGCGGTGGACGTGAGA
GACTTCTCACCTGAAGACATCATTGTCACCACCTCCAACAACCACATCGAGGTGCGGGCTGAGAAGCTGGCGGCT
GACGGCACCGTCATGAACACCTTCGCTCACAAGTGCCAGCTGCCGGAGGACGTGGACCCGACGTGCGGTGACCTCG
GCTCTGCGGGAGGACGGCAGCCTCACTATCCGGGCACGGCGTCACCCGCATACAGAACACGTCCAGCAGACCTTC
CGGACGGGAGATCAAAATCTGAGTGCCTCTCCCTTCCCTTTCCCTGTCCCCCGCCCCACGCCTGCCAGCAAAGCC
TCGCTAACCCCATTAACAACAGCTCCAGGACATCTCAGCCCAGGTTCTAGCCCCACGCACCCAGACCCAGGTG
GACCATCCTCCCAAAC TAGGGCCCTCCACTCTATCCAGGGCAGGCCAGGGACTCCCTGGCCTGACACATGATGCC
CAGATTTAGATTTGGCCTCCGTCACTTAATCCAGAGTACAGGGGCTGGGGTCAGGGAAGGAAGATCTAAAGAAC
CCACTGTGGGTGAGGGGAATGGGACCAGCAGGACATATGGGCAAGCTCTGCAGGACAGACAGGCAGACAAACCCT
CTGATCTATGA

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FIGURE 59

GCTCGTGTTAAATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGA
TCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACACAGTGAGAGAGCAATGCGAGCAGTT
GGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTATGATGAGCATGTATCCTCTCGATCACATACAGAAGA
GGATTGCACGGAGGAGCTCTTTGACTTCTTGTCATGCAAAGGACCATTGCGTGGCCCACTCTTTAACAACCTT
GAAATAAATGTGTGGACTTAATTCACCCCAGCCTTCATCATCTGGGCATCAGAATAATTCCTTATGGTTTCGGAT
GTACCATTGTGTTCTTATTTGTGTAAGTTACATGAACCTCGTGGGTTTTGGCTTAGGCTGGTAGCTTC
TATGTAATTCGCAGTGATTCCATCTAAATAAAAGTTCTGTGATCTGC

[illegible]

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FIGURE 61

MIRTL L L S T L V A G A L S C G D P T Y P P Y V T R V V G G E E A R P N S W P W Q V S L Q Y S S N G K W Y H T C G G S L I A N S W V L T A A H C I
S S S R T Y R V G L G R H N L Y V A E S G S L A V S V S K I V V H K D W N S N Q I S K G N D I A L L K L A N P V S L T D K I Q L A C L P P A G T I L P
N N Y P C Y V T G W G R L Q T N G A V P D V L Q Q G R L L V V D Y A T C S S A W W G S S V K T S M I C A G G D G V I S S C N G D S G G P L N C Q A S
D G R W Q V H G I V S F G S R L G C N Y Y H K P S V F T R V S N Y I D W I N S V I A N N

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FIGURE 62

CGGACGCGTGGGCCCCGCCAAGGCGAGTGCCGCGCGGGCCACCATGGCCACGGACGAGCTGGCCACCAAGCTGAG
CCGGCGGCTGCAGATGGAGGGCGAGGGCGGGCGGCGAGACCCCGGAGCAGCCCGGGCTGAACGGGGCAGCGGGCGGC
GGCGGCGGGGGCACCCGACGAGGCGGGCCGAGGCGCTGGGCAGCGCGGACTGCGAGCTGAGCGCCAAAGCTGCTGCC
GCGCGCAGACCTCAACCAGGGCATCGGCGAGCCCCAGTCGCCCAGCCGCCGCGTCTTCAACCCCTACACCGAGTT
CAAGGAGTTCTCCAGGAAGCAGATCAAGGACATGGAGAAGATGTTCAAGCAGTATGATGCCGGGCGGGACGGCTT
CATCGACCTGATGGAGCTAAAACTCATGATGGAGAACTTGGGGCCCCCTCAGACCCACCTGGGCCTGAAAAACAT
GATCAAGGAGGTGGATGAGGACTTTGACAGCAAGCTGAGCTTCCGGGAGTTCCCTCCTGATCTTCCGCAAGGCGGC
GGCCGGGGAGCTTCAGGAGGACAGCGGGCTGTGCGTGCTGGCCCGCCTCTCTGAGATCGACGTCTCCAGTGAGGG
TGTCAAGGGGGCCAAGAGCTTCTTTGAGGCCAAGGTCCAGGCCATCAACGTGTCCAGCCGCTTCGAGGAGGAGAT
CAAGGCAGAGCAGGAGGAAAGGAAGAAGCAGGCGGAGGAGATGAAGCAGCGGAAAGCGGCCTTCAAGGAGCTGCA
GTCCACCTTTAAGTAGCGGGGGCTGCAGCCGACCGCCCTGCTCCGGCCCCAGTGTGGTGGGCGAGGGTGCGCAT
GGGAGGCCGAGCCTGAATCCTTGCCCTGTGTCTGACGGGACCACTACTAAAAACCTAAAAATATCTGTGAATGGAG
CAAGTTCAGGGGTCTTATGGAGGTGGCCCGGGCCCTCCCCGCTCCCTTCCACTCTGCACGAGGCCGCCACACCGG
CGCTGGCTCCCTGCCCCGGCCCCGCCCTCCCTGGCAATCCCTGGGCTCTCTTGACCCCTAACTGCCCCCTGCCTG
CTCCGGCACTGCCCCAGGCCAGCTCCTGGCCCTAGGTCCCTCCCAGCCCCATGTGCCTGCCGCTGCCCTCCAC
ACATCCCTGTCCCCCAACCCGGGAACCCCTGCCCTCCTCCAGCAGGCCGCACCGCCCCCTGGGGCCCCCTGCCAG
CCCCCTTCCCAGGCTGGGAGACAGCAGAAGAGATAGAATCAGGGCTGCCCCACAGAGTGGGACCCAAGGGGCTAA
TTGGAGGCACGAGGGGACCCCTCCCCAGGGCCTTTTCCCTCCTCTGCGTCTTCCATCTACTGAAATGGGAGAGGGG
GTGGGGAGCTTCTGTTCTGGTGAAGGGACCCGGGCAGGCCCCCAGCACCCCATGCTGACTTGAGAAACCCAGAT
CTCTGGGGCCAGCCAGGCAGGGTGTGGGGGCAGCTGTGCCAATCTACCTCACAGGCCACCCCTGCCGGGCAT
GCCGTGGGATCATGGGCAGGGAAGGCTCTGGGGGTGCGAGACACCGCTGCTTAGCACCCCCAGCCAGAACACCCT
GAGGGTCTCGGGGCTCTGGAGAGAGTGGGGCGGGAGGAAGAATTGGCACCTTCCCTAGGGAAGGAGACGAGCGCTT
CGCCTTGATTCTCCGAGAAGCCTCCGAGAAGTGCTTTAAGTGTGTTTGCATGCGCCAGGCGGTGGGCAGCGGGGG
CCTGTCCAGCCCTCTCCCGCCATCCTTCCCCAAGTGACGTCCACTGCCTTGTCACCAGCGACCTGCCTGTCTATGC
CCACCCCTGAGGAAGCATGGGGACCCCTAACACCCTGGTGCCCTGCACCAGACAGGCCGTGGTCAGGCCAGGCC
ACCGGCCGGGTCTGCCACAGCTTCCCACGTGCTTGCTGACATGCGTGTGCCTGTGTGTGGTGTCTGTTGCTGTG
TCGTGAAACTGTGACCATCACTCAGTCCAAACAAGTGAGTGGCCCTCGAGGCCACAGTTATGCAACTTTCAGTGT
GTGTATAACGACGTCACTGCTTTTTAACTCGATAACTCTTTATTTTAGTAAATGCCAGGAGTCTTGGAAGC
TACGCGGACTTGACAGAGGTTTTATTTTTTGGCCTTAGAATCTGCAGAAATTAGGAGGCACCGAGCCAGCGCAGC
AGCCTCGGACCCGATTGCGTTTTGCCTTAGCGGATATGTTTATACAGATGAATATAAAATGTTTTTTCTTTGGG
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 63

MATDELATKLSRRLQMEGEGGGETPEQPGLNGAAAAAAGAPDEAAEALGSADCELSAKLLRRADLNQGIGEPQSP
SRRVFNPYTEFKFSRKQIKDMEKMFQYDAGRDFIDLMELKLMMEKLGAPQTHLGLKNMIKEVDEDFDSKLSF
REFLLIFRKAAGELQEDSGLCVLARLSEIDVSSEGVKGAKSFFEAKVQAINVSSRFEEEIKAEQEERKKQAEEM
KQRKA AFKELQSTFK

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FIGURE 64

GCCTCCCACTTGGTTGCTCGTACGCGGCTAGTGGGTCTCAGTGGATGTAGGCTGGGCGCCGCGATGTTGACGG
GACACCGGCGGAGAGCGACCTCGGGGTTAAGGGGTGGGGCTGACGTCAGGAGCCAAGATGGCGGGCGGTGGTCGCC
CTCTCCTTGAGGCGCCGGTTGCCGGCCACAACCCTTGGCGGAGCCTGCCTGCAGGCCTCCCGAGGAGCCCAGACA
GCTGCAGCCACAGCTCCCCGTATCAAGAAATTTGCCATCTATCGATGGGACCCAGACAAGGCTGGAGACAAACCT
CATATGCAGACTTATGAAGTTGACCTTAATAAATGTGGCCCCATGGTATTGGATGCTTTAATCAAGATTAAGAAT
GAAGTTGACTCTACTTTGACCTTCCGAAGATCATGCAGAGAAGGCATCTGTGGCTCTTGTGCAATGAACATCAAT
GGAGGCAACACTCTAGCTTGCACCCGAAGGATTGACACCAACCTCAATAAGGTCTCAAAAATCTACCCTCTTCCA
CACATGTATGTGATAAAGGATCTTGTTCCCGATTTGAGCAACTTCTATGCACAGTACAAATCCATTGAGCCTTAT
TTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTATCTGCAGTCCATAGAAGAGCGTGAGAACTGGAC
GGGCTCTACGAGTGCATTCTCTGTGCCTGCTGTAGCACCAGCTGCCCCAGCTACTGGTGGAACGGAGACAAATAT
CTGGGGCCTGCAGTTCTTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCGCCTG
GCCAAGCTGCAGGACCCATTCTCTCTATACCGCTGCCACACCATCATGAACTGCACAAGGACCTGTCTAAGGGT
CTGAATCCAGGGAAAGCTATTGCAGAGATCAAGAAAATGATGGCAACCTATAAGGAGAAGAAAGCTTCAGTTTAA
CTGTTTCCATGCTAAACATGATTTATAACCAGCTCAGAGCTGAACATAATTTATATCTAATTTGAGTTCCTTTAA
AGATCTTGGTTTTCCATGAATACAGCATGTATAATAAAAAATTTAAGAAATAAATGTTATTCTACTTTATTAAACA
AAAAA

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FIGURE 65

MAAVVALSLRRRLPATTLGGAQLQASRGAQTAAATAPRIKKFAIYRWDPDKAGDKPHMQTYEVDLNKCGPMVLDA
LIKIKNEVDSTLTFRRSOREGICGSCAMNINGGNTLACTRRIDTNLNKVSKEYPLPHMYVIKDLVPDLSNFYAY
KSIIEPYLKKKDESGEGKQQLQSIIEEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPVLMQAYRWMIDSRDD
FTEERLAKLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKMMATYKEKKASV

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FIGURE 66

AGTGTGTTGGGGTTGGCGGCCACAGCTAAGTCCAACACCAGCATGTCGCTGCAGAGAATCGTGCGTGTGTCCCTGGA
GCATCCACCAGCGCGGTGTGTGTGGCTGGCGTGGAGACCCTCGTGGACATTTATGGGTTCAGTGCCTGAGGGCAC
AGAAATGTTTGAGGTCTATGGGACGCCTGGCGTGGACATCTACATCTCTCCCAACATGGAGAGGGGCCGGGAGCG
TGCAGACACCAGGCGGTGGCGCTTTGACGCGACTTTGGAGATCATCGTGGTCATGAACTCCCCCAGCAATGACCT
CAACGACAGCCATGTTTCAATTTTCTTACCCTCCAGCCATGAGCCTCTGCCCCCTGGCCTATGCGGTGCTCTACCT
CACCTGTGTTGACATCTCTCTGGATTGCGACCTGAACTGTGAGGGAAGGCAGGACAGGAACCTTTGTAGACAAGCG
GCAGTGGGTCTGGGGGCCAGTGGGTATGGCGGCATCTTGCTGGTGAAGTGTGACCGTGATGATCCGAGCTGTGA
TGTCCAGGACAATTGTGACCAGCAGTGCCTGCAAGACCTGGAAGACATGTCTGTTCATGGTCTGCGGAC
GCAGGGCCCTGCAGCCCTCTTTGATGACCACAACTTGTCTCCATACCTCCAGCTATGATGCCAAACGGGCACA
GGTCTTCCACATCTGCGGTCTGAGGATGTGTGTGAGGCCATAGGCATGTGCTGGGCCAAGATAAGGTGTCTTA
TGAGGTACCCCGCTTGATGGGGATGAGGAGCGCTTCTTCGTGGAAGGCCTGTCTTCCCTGATGCCGGCTTCAC
AGGACTCATCTCCTTCCATGTCACTCTGCTGGACGACTCCAACGAGGATTTCTCGGCATCCCTATCTTCACTGA
CACTGTGGTGTTCAGAGTGGCACCTGGATCATGACGCCCAGCACTCTGCCACCCCTAGAGGTGTATGTGTGCCG
TGTGAGGAACAACACGTGTTTTGTGGATGCGGTGGCAGAGCTGGCCAGGAAGGCCGGCTGCAAGCTGACCATCTG
CCCACAGGCCGAGAACCAGCAACGACCGCTGGATCCAGGATGAGATGGAGCTGGGCTACGTTTCAAGCGCCGACAA
GACCCTCCCGGTGGTCTTTGACTCCCCAAGGAATGGGGAAGTGCAGGATTTCCCTTACAAAAGAATCCTGGGTCC
AGATTTTGGTTACGTGACTCGGGAACACGCGACAGGTCTGTGAGTGGCCTGGACTCCTTTGGGAACCTGGAGGT
CAGCCCTCCAGTGGTGGCCAATGGGAAGAGTACCCCTGGGGAGGATCCTCATTGGGGGCAACCTGCCTGGGTC
AAGTGGCCGCAGGTCACCCAGGTGGTGGGGACTTCTCCATGCCCAGAAGGTGCAGCCCCCGTGGAGCTCTT
TGTGGACTGGTTGGCCGTGGGCCATGTGGATGAGTTCTGAGCTTTGTCCCTGCCCCGATGGGAAGGGCTTCCG
GATGCTCCTGGCCAGCCCTGGGGCCTGCTTCAAGCTCTTCCAGGAAAAGCAGAAGTGTGGCCACGGGAGGGCCCT
CCTGTTCCAGGGGGTTGTTGATGATGAGCAGGTCAAGACCATCTCCATCAACCAGGTGCTCTCCAATAAAGACCT
CATCAACTACAATAAGTTTGTGACAGCTGCATCGACTGGAACCGTGAGGTGCTGAAGCGGGAGCTGGGCCTGGC
AGAGTGTGACATCATTGACATCCACAGCTCTTCAAGACCGAGAGGAAAAAGCAACGGCCTTCTTCCCTGACTT
GGTGAACATGCTGGTGTGTTGGGAAGCACCTGGGCATCCCCAAGCCCTTTGGGCCATCATCAATGGCTGCTGCTG
CCTGGAGGAGAAGGTGCGGTCCCTGCTGGAGCCGCTGGGCCTCCACTGCACCTTCATTGATGACTTCACTCCATA
CCACATGCTGCATGGGGAGGTGCACTGTGGCACCAATGTGTGCAGAAAGCCCTTCTCTTTCAAGTGGTGAACAT
GGTGGCCTGAGACAGCTCCCACCCACCATCCTGTCCCCCTGGGGCGGGCATTGGCCCAGGTGGTGGAGACAGAGA
CAGGCCCCGTAACGATAAGCACCAAGAGACCCCAAGGCTCCAGATGGAACACTGAGGGTGACCGTCCCTCTCAGA
AGCCTTTTCCCTGGAAGTGTCCATGCCTCACCTGCAACCCATGTGGTTCTCAGACTTGAATCTTCTCGGCCCCC
AAAAAGAAGGACCTCATTTCTTATAGCCTCTCCTGTGATTCAACACAACCCATGGAGATGTCCCTTCTCACTCT
GAAATCATCCATTTGGGGACAAATCCACATTGGGGTCTAGAAACATCCACGTATCTCATCAGCCATCTTGTCTG
TGCATCCTAACAGAGGAAGGATCCATGATTCTGCTTTGGTCCAATTGCTTCTCTGTCAGAGGAACAACCCATA
AACCAGACCACTCCACGCAGGACAGGCAGGAGAGATTCTTCTAAAGCCTCCCCATAAAAAGGGAGCTGTGGAT
CCACTTAGATCAGGGCGGAACCATCTTTACCCGGCCAAGCTCCTGCCAGATGTTGACCTCACCCAGCGTGAG
CTGTCACATAGTAGGAGCTTCTAGATGCATGTGGAAGCAATGAGAGTTGTCCCTTAGCCTTATAAACTCCCCATG
ATCTGACATGCAGAAATCCAGCCTTGTCCAGAATCCTCCTGGAATTTCTTGAGACGAAAGTATCTGGGGGATTG
TTGGGTACTAGGGAGACTGGGTACAAGGGTGAAGTAGTTCCCATATAACACATGGTTGACTATGGTATCCAC
CTTGTGATGGTTAATATTAGGTGTCTGGAGAAGGTTGCTTCATTGGCCCTGGGACTTCTCTCTGCAGGAGGAGAG
AACGCTGCCTCTCCTCTGGAATTGGTCTCAGGCTCTCTGTGGCCTTTGGTCAGCGTTTCCACATCCTGCTCTGCT
GCAGGAGAGGGGGCTAAGGGGCTGGATCCACCAAGGCAGCTCACAGCGGGAAACTCTGGGAATGAACCACTGAA
TTCAGGGGATGGGGGTGGGGGGCGGTTCTCGAGGTGTGTGCCAGCTACACGTGTGTTCTGTATGGGTCCAGCTG
CGTTTCCATCACTCGCTAATAAATCAACAGAAACAC

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FIGURE 67

AGCCAGAGGGACGAGCTAGCCCCACGATGGCCCCAGGGGACATTGATCCGTGTGACCCCAGAGCAGCCCACCCATG
CCGTGTGTGTGCTGGGCACCTTGACTCAGCTTGACATCTGCAGCTCTGCCCCTGAGGACTGCACGTCCTTCAGCA
TCAACGCCTCCCCAGGGGTGGTTCGTGGATATTGCCCCAGGCCCTCCAGCCAAGAAGAAATCCACAGGTTCTCCCA
CATGGCCCCCTGGACCTGGGGTAGAGGTGACCCTGACGATGAAAGTGGCCAGTGGTAGCACAGGCGACCAGAAGG
TTCAGATTTTCATACTACGGACCCCAAGACTCCACCAGTCAAAGCTCTACTCTACCTCACCGGGGTGGAAATCTCCC
TGTGCGCAGACATACCCGACACCGGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACCTGGG
GCCCTTGTGGACAGGGTGGCATCCTGCTGGTGAAGTGTGACAGAGACAATCTCGAATCTTCTGCCATGGACTGCG
AGGATGATGAAGTGCTTGACAGCGAAGACCTGCAGGACATGTGCTGATGACCCTGAGCACGAAGACCCCCAAGG
ACTTCTTCACAAACCATACTGGTGCTCCACGTGGCCAGGTCTGAGATGGACAAAGTGAGGGTGTTCAGGCCA
CACGGGGCAAAGTGTCTCCAAGTGCAGCGTAGTCTTGGGTCCCAAGTGGCCCTCTCACTACCTGATGGTCCCCG
GTGGAAAGCACAACATGGACTTCTACGTGGAGGCCCTCGCTTTCCCGACACCGACTTCCCGGGGCTCATTACCC
TCACCATCTCCCTGCTGGACACGTTCAACCTGGAGCTCCCCGAGGCTGTGGTGTTCGAAGACAGCGTGGTCTTCC
GCGTGGCGCCCTGGATCATGACCCCCAACACCCAGCCCCCGCAGGAGGTGTACGCGTGCAGTATTTTTGAAAATG
AGGACTTCCTGAAGTCAGTGACTACTCTGGCCATGAAAGCCAAGTGAAGCTGACCATCTGCCCTGAGGAGGAGA
ACATGGATGACCAAGTGGATGCAGGATGAAATGGAGATCGGCTACATCCAAGCCCCACACAAAACGCTGCCCGTGG
TCTTCGACTCTCCAAGGAACAGAGGCCTGAAGGAGTTTCCCATCAAACGCGTGATGGGTCCAGATTTTGGCTATG
TAACTCGAGGGCCCCAAACAGGGGGTATCAGTGGACTGGACTCCTTTGGGAACCTGGAAGTGAGCCCCCAGTCA
CAGTCAGGGGCAAGGAATACCCGCTGGGCAGGATTCTCTTCGGGGACAGCTGTTATCCCAGCAATGACAGCCGGC
AGATGCACCAAGGCCCTGCAGGACTTCCTCAGTGGCCAGCAGGTGCAGGCCCTGTGAAGCTCTATTCTGACTGGC
TGTCCGTGGGCCACGTGGACGAGTTCTTGAGCTTTGTGCCAGCACCCGACAGGAAGGGCTTCCGGCTGCTCCTGG
CCAGCCCCAGGTCTGTACAAACTGTTCCAGGAGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTCTGAAG
GGATCAAGAAAAAAAACAGCAGAAAAATAAGAACATTCTGTCAAACAAGACATTGAGAGAACATAATTCAATTG
TGGAGAGATGCATCGACTGGAACCGCGAGCTGCTGAAGCGGGAGCTGGGCCTGGCCGAGAGTGACATCATTGACA
TCCCGCAGCTCTTCAAGCTCAAAGAGTTCTCTAAGGCGGAAGCTTTTTTCCCCAACATGGTGAACATGCTGGTGC
TAGGGAAGCACCTGGGCATCCCCAAGCCCTTCGGGGCCGTCATCAACGGCCGCTGCTGCCTGGAGGAGAAGGTGT
GTTCCCTGCTGGAGCCACTGGGCCTCCAGTGCACCTTCATCAACGACTTCTTCACCTACCACATCAGGCATGGGG
AGGTGCACTGCGGCACCAACGTGCGCAGAAAGCCCTTCTCCTTCAAGTGGTGAACATGGTGCCCTGAGCCCATC
TTCCTGGCGTCTCTCCCTCCTGGCCAGATGTCGCTGGGTCTCTGCACTGTGGCAAGCAAGAGCTCTTGTGAA
TATTGTGGCTCCCTGGGGGCGGCCAGCCCTCCCAGCAGTGGCTTGTCTTCTCCTGTGATGTCCAGTTTCCC
ACTCTGAAGATCCCAACATGGTCTTAGCACTGCACACTCAGTTCTGCTCTAAGAAGCTGCAATAAAGTTTTTTTA
AGTCACTTTGTAC

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FIGURE 68A

GGAAAGCTCGTATTTACATTTTAAAGTGTATCTGGTGAGTGGGCTGGAGCCCTCGTCTGGGCCGGAAAAAAAAGC
 CCTCCGATCCGCTCTTTTAGTTGCTTCTCTTCCCTTTTTTCTCTCCGTTTCTCATCACTCCAACCAGCCGCGACCA
 TGCCCAGGAAGAAGGCGGCGGCGGCGGCGCTGGGAGGAGCCGAGCTCGGGCAACGGCACTGCCCGCGCCGGGCCCA
 GGAAACGCGGCGGCCCCGGCGGGCAGGAAGCGCGAGCGGCCGAGCGCTGCAGTAGCAGCAGCGGCGGCGGCGACGA
 GCGGCGACGAGGACGGCCTGGAGCTCGACGGGGCCCCCGCGGGGGCAAGCGCGCGGCGCGGCCGCGACAGCAG
 GCAAGGCGGGCGGCGCGGCGCGCTGGTTCATCACCGAACCCGAGCACACCAAGGAGCGCGTCAAACCTGAAGGGTCAA
 AGTGCAAAGGGCAGCTTTTGATTTTTTGGGGCAACCAACTGGGACTTGATTGGTGCAGAAAGAGTGCCATAACAGC
 AAGCTGCTTACCGCAATCTCGGTGAGAATTTGTGGGGGCCCCACAGATATGGGTGCCTGGCGGGGGTCCGGGTG
 GGACAGTGGTCTCGGGCTCGTGTGCTGCACACAGCCTCCTCATCACACGGAAGGGGAAGCTGTGGAGCTGGGGTC
 GAAATGAGAAGGGGCAGCTGGGACATGGTGACACCAAGAGAGTAGAAGCCCCCTAGACTCATCGAGGGTCTTAGCC
 ACGAAGTGATTGTGCTGCAGCATGTGGGCGGAACCACACCTTGGCCTTGACGGAAACGGGCTCCGTGTTTGCCT
 TTGGGGAAAACAAGATGGGGCAGCTGGGCCTTGGCAACCAGACAGACGCTGTTCCCGAGCCCCGCGCAGATAATGT
 ACAACGGCCAGCCAATTACCAAAATGGCCTGTGGGGCTGAATTCAGTATGATAATGGACTGCAAAGGAAACCTCT
 ATTCTTTTGGGTGCCCTGAATATGGTCAGCTGGGACACAACCTCAGATGGGAAGTTTCATCGCCCGGGCACAGCAGGA
 TAGAGTACGACTGTGAACTAGTTCCCCGGCGAGTGGCCATCTTCATTGAGAAGACGAAAGATGGACAGATTCTGC
 CTGTACCAACGTGGTTGTACGAGACGTGGCCTGTGGCGCTAACACACGCTGGTCTTGACTCCCAGAAGCGAG
 TCTTCTCCTGGGGCTTTGGTGGCTATGGCCGGCTGGGCCACGCAGAGCAGAAAGGATGAGATGGTCCCCCGCCTGG
 TGAAGCTGTTTACTTCCCTGGGCGTGGGGCTTCCAGATCTATGCTGGTTACACCTGCTCCTTTGCTGTCAGTG
 AAGTGGGTGGTCTGTTTTTCTGGGGGGCCACCAACACCTCCCGTGAATCTACCATGTACCCAAAAGCAGTGACAG
 ACCTCTGCGGCTGGAGAAATCGGAGCCTGGCTTGTTGGGAAGAGCAGCATCATTGTGGCCGCCGATGAGAGCACCA
 TCAGCTGGGGTCCGTCACCGACCTTTGGGGAACTGGGCTACGGGGACCACAAGCCCCAAGTCTTCCACTGCAGCCC
 AGGAGGTAAAAGACTCTGGATGGCATTCTCTCAGAGCAGGTCGCCATGGGCTACTCACACTCCTTGGTGATAGCAA
 GAGATGAAAGTGAGACTGAGAAAAGAGAAAGATCAAGAAACTGCCAGAAATACAACCCCCGAACCTCTGATGCTCCC
 GGAGACTCCTCCGACTCCACACCTCTCGCGGCAGCTGTCATTTCCATGTGCACTGGGACGGGAAGTCAAACGAGG
 AATTTAAAAAAGCAAAAGTTGACCGAAGGTGCATTTTTTGTTTACTTCCCTGAGGTTCCGTTTTACACATGATCC
 AACGTTAACTACCTTTTTTTCTGTATGCTTTCCAAAGTCCTTTTTTTTTCCCTTAATGTTGAATTAATACTTGC
 TCATAGTTGATTTACCATTCCTACAAAAGAGGCAGAAACTTTGAGCAATCTAGGTTTTTTTTTTTTTTAAGTTTT
 TTCTTTCTTCCCTTCCCTGAATACACTCCCCAAAACACCCCTTTCCAGTTACAATTAGCATCGTGATCCAAGCAGA
 TGCCACATGGAAGAGGAATCGCCATTTACTCAGAAAAAATGTCCCTTACAGGAACCGGCAGCAGCTAGGCAGTCA
 CCGGCCCGCCTCCATCCAAAATCACGCTCGCGTGCTTCGGAAGCATCCGGGTCACTCCTTCTCCGCTTTTTCTTG
 CAGATGGGCCCTAGGCCGCTGTGCGTTCTGTTTTCTCCCTTGGCTGCCTGTACGCCACAGCCTTCTGCTGCGAC
 ATTATAGAATCGGCCGTGTCCCCCTGGTGGGGGATTGGGGATCTGTGTTTAGCCATTTATATCTACTTTAGCTG
 TTAAAGAGGTCCAAATGAAATCAGGTGATTGTGGAACCATGGGACTTGGGGGTGGGGCAGAGGTGGGAACATT
 GTATCAGTTGAGTCAGCTTGGTGGCTCCCTGTGGAGCCAGGGCTGAGCCTTGTACGCGCACTCGCCAATTAAG
 AGATGGACCAGCCAGCAGTCAAGTGCAATTCCTCAGTCCCTTGCAAGAAGGATCAGCCCTTTCTGTGCCAGCCTCGA
 TCGCCTTGTGCTTTGGTCTCTTTTTCTCCCCCCCCGCTGGATCTGCTCGCGCGGGCCGCTCCTGTTGCTGAGAC
 TCGGGGTACCGTTCTGCTGACCCAGCTCCCTTTAGTACGTTTGCTTGGCTCTGGTACCAAATAGTTGGGATTAC
 CGAAGAGTCCCCCTTCCCTTGCCTGTACGACCGATGCTGTGACTGCCACCTGCGTCTCTGTCAGTGCCCGAGCTC
 GCCGCCGTGTGTGCTGCGCTGAGTGAGTTATGAGGTGCCTTTCCCGGAACCTCCTCTCGCCTGGACCCAAGAGA
 GGCGACAGCTGTGGCTGGGGCTCTTGTTTCCAGAGGGTCTGGACTGGTTTGGGTGCTTTAAAATAGATATTTAG
 TTCAGTGGTGCTTATGGGGAGATGGGACTAGAACTTAAGTGTGAGACTTGGGTGGATGGGAAAGTTAAAATATTG
 GTCTCTTCAAGTTTTTTTTTTCTTTTGTGTTTACCACCTGTCACTGTCTCCATGTTAAAATGCCAAAAATGAT
 GTAGTTGTTGTTGCTTTTTTCCCTATTTTCCACCCAGTCGCTCCTTACCGTGACTCCTGCCCTTGGAGGGCATG
 TAGCAGTGTCTGTCTGCCAGTCCCAAGGCCCTGTGGGAGGAGACTGGCCTGCATCTCTCTAAGACTTAGTCTGA
 CGCCACGCGCATCTCTTGTTCTGTGTTCAATCAGTAGTCCAGGGGAGAAGCTTCTGCTACTTCAGAGCTTTGCTA
 AACTAACCTAATTTGTCCAAATCACCCCAAAACCACCATCTCTGACGTAAGCTTCCATGCGACAGCCTGATCCGT
 TTCCCTGGACAGGTCTCTTTCTGGAATGCAGCCAGGCACCTGTGCTCCTGGCACCCCTTGAGGTCTCTTCTTTG
 AGCCGTGGTCAACGAGAGGGTTGAGGACGCAGCACCCGAGGTCCCAGCCTTTGCAGGAGCCTCCCTGGGCTTAGC

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FIGURE 68B

TGGACTTAGATCTTCGGTGGCCTCATGTAAACGTGGCAGCCAGCCTCTTCTAGAACCCTAGCCCAGGGACTGGAG
CAGGAAAGGGACCTTCAAAGTGAAGACTGCCTTGTCCCGCAGCTCCTTCTGGCTTAGATTGAAACATGGGCTTCC
TAATGGGTTAAATCCTTTAAAACAAGGAGTTGTGGGGGAAGGGTGTGCGTGCACCTCCTAGAGAAAGGTACACAGTT
GCCCAGTTGGGAATGTGCTTGGCGCTGACCCTGCGGGCATCTGACTGGTCTTCCAGCTCAGGAAAAAGAATTTGA
AAGAGGCTTAGCGTGAAGGGGAATCAAAGAGGAGTTGTGATTTGGTCGAAGGTGCCTGGTTTAGTGCTGTAATT
GTCTTATTATTTTTTTTTATATATATATTTCTTGGAGTAAACATTTTAAAT

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FIGURE 69

ATGAGTGATCAGCAGCTGGACTGTGCCTTGGACCTAATGAGGCGCCTGCCTCCCCAGCAAATCGAGAAAAACCTC
AGCGACCTGATCGACCTGGTCCCCAGTCTATGTGAGGATCTCCTGTCTTCTGTTGACCAGCCACTGAAAATTGCC
AGAGACAAGGTGGTGGGAAAGGATTACCTTTTGTGTGACTACAACAGAGATGGGGACTCCTATAGGTCACCATGG
AGTAACAAGTATGACCCTCCCTTGGAGGATGGGGCCATGCCGTCAGCTCGGCTGAGAAAGCTGGAGGTGGAAGCC
AACAATGCCTTTGACCAGTATCGAGACCTGTATTTTGAAGGTGGCGTCTCATCTGTCTACCTCTGGGATCTGGAT
CATGGCTTTGCTGGAGTGATCCTCATAAAGAAGGCTGGAGATGGATCAAAGAAGATCAAAGGCTGCTGGGATTCC
ATCCACGTGGTAGAAGTGCAGGAGAAATCCAGCGGTGCGACCGCCCATTAACAAGTTGACCTCCACGGTGATGCTG
TGGCTGCAGACCAACAAATCTGGCTCTGGCACCATGAACCTCGGAGGCAGCCTTACCAGACAGATGGAGAAGGAT
GAAACTGTGAGTGACTGCTCCCCACACATAGCCAACATCGGGCGCCTGGTAGAGGACATGGAAAAATAAATCAGA
AGTACGCTGAACGAGATCTACTTTGGAAAAACAAAGGATATCGTCAATGGGCTGAGGTCTGTGCAGACTTTTGCA
GACAAATCAAAACAAGAAGCTCTGAAGAATGACCTGGTGGAGGCTTTGAAGAGAAAGCAGCAATGCTAAACCTCT
GTTTCATGCTAACCCAGACACGCCGTGCACTCGTTAGATTCTTTCTTAGAAAACCTCGTTTTCTGCTCCCTTCCCT
CGTCCCTTCCCTCCCCGACAGGTCACATAACAGCTGCATCATTGACCGCACAGCGCCATCTCTCCCTGAGAATAA
AGCCGATAGCCACCTCCTCCGGCTCCGAGCCTGCTTCTGCCACACCTCGCTCTCAGTCTCTCCACATTTCCATAG
AGACCGTGTGGTTTTTGTTCACCCGGG

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FIGURE 70

MSDQQLDLCALDLMRRRLPPQQIEKNLSDLIDLVPISLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRDGDSYRSPW
SNKYDPPLLEDGAMP SARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDL DHGFAGVILIKKAGDGSKKIKGCWDS
IHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMENKIR
STLNEIYFGKTKDIVNGLRSVQTFADKSKQEALKNDLVEALKRKQQC

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FIGURE 71

CCGCGTCTCGCGTAGTCTCCCGCGCCGCGCTCCACTGCGCGCTTCGCTCTCCGCCGCCCGAGGCCCGCGCGCTCG
CCATGTCCCGGCCACCGCCACCGCGGGTCGCCTCGGTGCTGGGCACCATGGAGATGGGGCGCCGCATGGACGCGC
CCGCCAGCGCCGCGGCCGTGCGCGCCTTTCTGGAGCGCGGCCACACCGAACTGGACACGGCCTTCATGTACAGCG
ACGGCCAGTCCGAGACCATCCTGGGCGGCCTGGGGCTCGGGCTGGGCGGTGGCGACTGCAGAGTGAAAATTGCCA
CCAAGGCCAACCTTGGGATGGAAAATCACTAAAGCCTGACAGTGTCCGGTCCCAGCTGGAGACGTCATTGAAGA
GGCTGCAGTGTCCCAAGTGGACCTCTTCTACCTACACACACCTGACCACGGCACCCCGGTGGAAGAGACGCTGC
ATGCCTGCCAGCGGCTGCACCAGGAGGGCAAGTTCGTGGAGCTTGGCCTCTCCAATATGCTAGCTGGGAAGTGG
CCGAGATCTGTACCCTCTGCAAGAGCAATGGCTGGATCCTGCCCAGTGTGTACCAGGGCATGTACAACGCCACCA
CCCGGCAGGTGGAAACGGAGCTCTTCCCTGCCTCAGGCACTTTGGACTGAGGTTCTATGCCTACAACCCTCTGG
CTGGGGGCCTGCTGACTGGCAAGTACAAGTATGAGGACAAGGACGGGAAACAGCCTGTGGGCCGCTTCTTTGGGA
ATAGCTGGGCTGAGACCTACAGGAATCGCTTCTGGAAGGAGCACCACTTCGAGGCCATTGCGTTGGTGGAGAAGG
CCCTGCAGGCCGCATATGGCGCCAGCGCCCCAGTGTGACCTCGGCTGCCCTCCGGTGGATGTACCACCACTCAC
AGCTGCAGGGTGGCCACGGGGACGCGGTATCCTGGGCATGTCCAGCCTGGAGCAGCTGGAGCAGAACTTGGCAG
CAACAGAGGAAGGGCCCCTGGAGCCGGCTGTCGTGGATGCCTTTAATCAAGCCTGGCATTGTTGGTTGCTCACGAAT
GTCCCAACTACTTCCGCTTAGGCCCATCATGGCTCAGGCTGCCCAAGGCTTTTCTGTACCTCTTTTGTTCCTCA
CACTGACCAGTCTTGGCCTTAAGCTGACTTAGAAGGGTTTTCTGAATTGTCTAGATCCATGCATTATTTTTCTA
GCTTCCTGCCTTGCTCCCTATTCACTTTACACTGTGAAAGGTGGGGGGTGAGTCCCACTTGAGCGCTTCCTGTTG
AATAAAGCAGGCACTTGACCTGGCTGTAGCCTAGGTCTTGAGTGAACCCCAAAAAA

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FIGURE 72

MSRPPPPRVASVLGTMEMGRRMDAPASAAVRAFLERGHTELDTAFMYSDGQSETILGGLGLGLGGDCRVKIAT
KANPWDGKSLKPDSVRSQLETSKKRLQCPQVDLFYLHTPDHGTPVEETLHACQRLHQEGKFVELGLSNYASWEVA
EICTLCKSNGWILPTVYQGMYNATTRQVETELFPCLRHFGLRFYAYNPLAGLLTGKYKYEDKDQKQPVGRFFGN
SWAETYRNRFWKEHHFEAIALVEKALQAAYGASAPSVTSAALRWMYHHSQIQGAHGDAVILGMSSLEQLEQNLA
TEEGPLEPAVVDAFNQAWHLVAHECPNYFR

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FIGURE 73

ACCGTCTTCCGCCGCACGTGGATTGAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTTCGGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTCAGCAAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTTACGAAATACACAGAAATGGACTACGCCCAGCTGGTAACAAAGCAGCTTTCCTGTGAGCCTGGATCCAGG
GCCCCCTGGAGCAGTTCCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCCACCGCCCTCAAGAGAGG
TGTGGTGACTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCTCT
GAAGCTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCCCTCT
GGAGAGAGCAGCTTTTTATTTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAAACTAGTTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAAACTCTGTCCC

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FIGURE 74

MPKSKRDKKVSLTKTAKKGLELKQNLIEELRKCVDITYKYLFIFSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLEFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPGPLEQFPHSME
PQLRQLGLPTALKRGVVTL LSDYEVCKEGDVLTP EQARVLKLFYEMAEFKVTIKYMWDSQSGRFQQMGDDL PES
ASESTEESDSEDD

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FIGURE 75

ATCGCTGGGCGACTGATTTCGAGTTTCCGGTCAGGTTAGGCCGGGGGGGTGCGGTCTTGGTTCGGAAGGAGGTGGA
GAGTCGGGGGTACACAGGCCTATCCTTGGCGCCACAGTCGGCCACCGGGGCTCGCCGCCGTTCATGGAGAGCGGAG
GGCGGCCCTCGCTGTGCCAGTTTCATCCTCCTGGGCACCACCTCTGTGGTCACCGCCGCCCTGTACTCCGTGTACC
GGCAGAAGGCCCCGGGTCTCCCAAGAGCTCAAGGGAGCTAAAAAAGTTTCAATTTGGGTGAAGATTTAAAGAGTATTC
TTTCAGAAGCTCCAGGAAAATGCGTGCCTTATGCTGTTATAGAAGGAGCTGTGCGGTCTGTTAAAGAAACGCTTA
ACAGCCAGTTTGTGGAAAACCTGCAAGGGGGTAATTCAGCGGCTGACACTTCAGGAGCACAAAGATGGTGTGGAATC
GAACCACCCACCTTTGGAATGATTGCTCAAAGATCATTTCATCAGAGGACCAACACAGTGCCCTTTGACCTGGTGC
CCCACGAGGATGGCGTGGATGTGGCTGTGCGAGTGCTGAAGCCCTTGGACTCAGTGGATCTGGGTCTAGAGACTG
TGTATGAGAAGTTCCACCCCTCGATTTCAGTCCTTCACCGATGTTCATCGGCCACTACATCAGCGGTGAGCGGCCCA
AAGGCATCCAAGAGACCGAGGAGATGCTGAAGGTGGGGGCCACCTTCACAGGGGTGGCGAACTGGTCTTGGACA
ACAATCTGTCCGCCTGCAGCCGCCCAAACAAGGCATGCAGTACTATCTAAGCAGCCAGGACTTCGACAGCCTGC
TGCAGAGGCAGGAGTCGAGCGTCAGGCTCTGGAAGGTGCTGGCGCTGGTTTTTGGCTTTGCCACATGTGCCACCC
TCTTCTTCATTCTCCGGAAGCAGTATCTGCAGCGGCAGGAGCGCCTGCGCCTCAAGCAGATGCAGGAGGAGTTCC
AGGAGCATGAGGCCCAGCTGCTGAGCCGAGCCAAGCCTGAGGACAGGGAGAGTCTGAAGAGCGCCTGTGTAGTGT
GTCTGAGCAGCTTCAAGTCCTGCGTCTTTCTGGAGTGTGGGCACGTTTGTTCCTGCACCGAGTGCTACCGCGCCT
TGCCAGAGCCCAAGAAGTGCCTTATCTGCAGACAGGCGATCACCCGGGTGATACCCCTGTACAACAGCTAATAGT
TTGGAAGCCGCACAGCTTGACCTGGAAGCACCCCTGCCCCCTTTTCAGGGATTTTTATCTCGAGGCCTTTGGAGG
AGCAGTGGTGGGGGTAGCTGTACCTCCAGGTATGATTGAGGGAGGAATTGGGTAGAACTCTCCAGACCCATGC
CTCCAATGGCAGGATGCTGCCTTTCCACCTGAGAGGGGACCCTGTCCATGTGCAGCCTCATCAGAGCCTCACCC
TGGGAGGATGCCGTGGCGTCTCCTCCCAGGAGCCAGATCAGTGCGAGTGTGACTGAAAATGCCTCATCACTTAAG
CACCAAAGCCAGTGATCAGCAGCTCTTCTGTTTCTGTGTCTTCTGTTTTTTCTGGTGAATCGTTGCTTGCTGTG
GACTTGGTGGAGGACTCAGAGGGGAGGAAAGGCTGGGGCCCCGAGTACAACGGATGCCTTGGGTGCTGCCTCCGAA
GAGACTCTGCCGCAGCTTTTCTTCTTTTCTCTCATGCCCCGGGAAACAGTCTTTCTTTCAGAATTGTGAGGCTGGG
CAGGTCAACTTGTGTTTCTTTCCCTCACCTGCTTGCTCCTTAACGCCTGCACGTGTGTGTAGAGGACAAAAGA
AAGTGAAGTCAGCACATCCGCTTCTGCCCAGATGGTGGGGCCCCGGGCAACAGATTGAAGAGAGATCATGTGAA
GGGCAGTTGGTCAGGCAGGCCTCCTGGTTTCGCCACTGGCCCTGATTTGAACTCCTGCCACTTGGGAGAGCTCGG
GGTGGTCCCTGGTTTTTCCCTCCTGGAGAATGAGGCGCAGAGGCCTCGCCTCCTGAAGGACGCAGTGTGGATGCCA
CTGGCCTAGTGTCTTGGCCTCACAGCTTCTTGAAGGCTGTCACAAGGAAAAGCAGCCGGCTGGCACCCCTGAGC
ATATGCCCTCTTGGGGCTCCCTCATCCAGCCCGTCGCAGCTTTGACATCTTGGTGTACTCATGTGCTTCTCCTT
GTGTTACCCCTCCAGTATTACCATTTGCCCTCACCTGCCCTTGGTGAGCCTTTTAGTGCAAGACAGATGGGG
CTGTTTTCCCCCACCTCTGAGTAGTTGGAGGTCACATACACAGCTCTTTTTTTATTGCCCTTTTCTGCCTCTGAA
TGTTTCATCTCTCGTCTCTTTTGTGCAGGCGAGGAAGGGGTGCCCTCAGGGGCCGACACTAGTATGATGCAGTGT
CCAGTGTGAACAGCAGAAATTAAACATGTTGCAACC

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FIGURE 76B

TTTGTATTTGTTTTAGTATTGTGAAGTTGTGTTAAATAGTACTAGCTAGAAATACAAATTTCTGGTTATCATTTCTCTCCCTGTGGCACTTGACATTTTAATTGTCTTAAAGTTTTTGAAGTACATCTTCTGGCCCCCTTGAGTACTGCCAGAGGCAAAAGATGTTTGTTCCTTATTCATTCCACTTTTGTCTCCTGGGATCCCTTCTGTAGCCTAAAGTATGGCTGGGAAATGGACTTGAGAAGATTGGCTTGAATTAGATCATAATCATGTGTGATCCCATCATGAATTCATTGGAATTGTGTGTCATGTAAGGCAATCTTTCCTGTTGTAAATCTTCCTTTTTTAATGTACATATATTTTGAAAAATATGAATAAACATGAAATTTT

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FIGURE 77

GGCGCCGAGTAGCCGGGCCGGGCCGGAGCGCGGGCGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA
GGCCCCGCGCCCCGCGCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCGGCCAGCGGCAGGACCATGGT
TGAGCGCGCCAGCAAGTTTCGTGCTGGTGGTGGCGGGCCCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGG
CCCAGGACTGAGCCTGGGCGCGCCCGGCGGCGGCGCGCCGCCGACGACCTGGACCTGTTCCCCACGCCCGACCC
CCACTACGAGAAGAAGCACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA
CGTGATCGTCTTCTGACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGAGAACGTACGCCT
CGAGGTGCCGTGCGACTGCCGGCCCGGCCAGAAGAAGTGACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCT
CTTCTCCCGCTTCTCCACCGGTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGG
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTTCTACTACATCACCTGCTACGAGACCC
CGTGTCCTCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCGTTGCACATGTGTGA
TGGGCGCACGCCACGCTGAGGGGCTGCCGCCCTGCTACGAGGGCACGGAAGTTCGAGAGCGCCAAGAAGAAGCTGCGGGG
GTTTATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG
CTACAACCTGTCCTTCATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAAGCTGCGGGG
CATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTT
CATCCGGCCCTTCATGCAGTACAACAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAGGACACCATCCGGCGCAT
CGAGGAGCTCAACGACCTGGACATGCAGCTGTATGACTACGCCAAGGACCTCTTCCAGCAGCACTACAGTACAA
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCGCT
GCCGCGGGAGGACGCCGACGAGCCGGGCCGCTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGTGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA
GACTGTCAAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCCTGAAAAAAAACACAGCAGGGACA
TAGTGGGGCTGGGCAGGGATGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTGAGAGGAAAGCGTGCTCGA
AGGATGCCATGGTCAGGGCAGAGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCTGGCCTCCTTGGATTT
ATCGCAAAAAGTGAAGGTTTTCGTGAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCT
CACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAAC
TGCCCCAGCTCCAGGCCATCCCATAGCTCCTCCTCTTGGCTGCCCCCAATGCCCGAGGCCTGGGGAGCCCCC
AGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCAACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCC
AGGAAGCCTGCTCCCTCTCTGGCCCATGGTCCTGCTTCATGCTTTGGGTGAGGAGGCCAAAGCTGATGTTTCAGG
CCCCACCACTCCCTACAGTCCTCAGACC

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FIGURE 78

AGAAACTCCCGGTGTGGCAGCTGAGATGGCCAGGAAAGAACTATATTACCTTCAAAAAGAGAGGTACATGCGAT
GTTTGAGGTGGCATGAAGCTCAGTGGTGTATATTGGAATGAGTGAGTGACCATCCTGGAGCCTTCCTGAAAGAG
GATTGGAACATCAGTTAACATCTGACCACTGCCAGCCACCCCTCCACCCACGTGCGATTGCATCTCTGGGCTC
CAGGGATAAAGCAGGTCTTGGGGTGCACCATGATTTACCAATTCTTAGTACTGGCCATTGGCACCTGCCTTACTA
ACTCCTTAGTGCCAGAGAAAGAGAAAGACCCCAAGTACTGGCGAGACCAAGCGCAAGAGACACTGAAATATGCCC
TGGAGCTTCAGAAGCTCAACACCAACGTGGCTAAGAATGTCATCATGTTCTCTGGGAGATGGGATGGGTGTCTCCA
CAGTGACGGCTGCCCCGATCCTCAAGGGTCAGCTCCACCACAACCCTGGGGAGGAGACCAGGCTGGAGATGGACA
AGTTCCCTTCGTGGCCCTCTCCAAGACGTACAACACCAATGCCCAGGTCCCTGACAGTGCCGGCACC GCCACCG
CCTACCTGTGTGGGGTGAAGGCCAATGAGGGCACCGTGGGGGTAAGCGCAGCCACTGAGCGTTCCCGGTGCAACA
CCACCCAGGGGAACGAGGTACCTCCATCCTGCGCTGGGCCAAGGACGCTGGGAAATCTGTGGGCATTGTGACCA
CCACGAGAGTGAACCATGCCACCCCGAGCGCCGCTACGCCCACTCGGCTGACCGGGACTGGTACTCAGACAACG
AGATGCCCCCTGAGGCCTTGAGCCAGGGCTGTAAGGACATCGCCTACCAGCTCATGCATAACATCAGGGACATTG
ACGTGATCATGGGGGGTGGCCGGAAATACATGTACCCCAAGAATAAACTGATGTGGAGTATGAGAGTGACGAGA
AAGCCAGGGGCACGAGGCTGGACGGCCTGGACCTCGTTGACACCTGGAAGAGCTTCAAACCGAGATACAAGCACT
CCCACTTCATCTGGAACCGCACGGAACCTCTGACCTTGACCCCAACAATGTGGACTACCTATTGGGTCTCTTCG
AGCCAGGGGACATGCAGTACGAGCTGAACAGGAACAACGTGACGGACCCGTCCTCTCCGAGATGGTGGTGGTGG
CCATCCAGATCCTGCGGAAGAACCCCAAGGCTTCTTCTTGCTGGTGGAAAGGAGGCAGAATTGACCACGGGGCACC
ATGAAGGAAAAGCCAAGCAGGCCCTGCATGAGGCGGTGGAGATGGACCGGGCCATCGGGCAGGCAGGCAGCTTGA
CCTCCTCGGAAGACACTCTGACCGTGGTCACTGCGGACCATTCCCACGTCTTACATTTGGTGGATACACCCCCC
GTGGCAACTCTATCTTTGGTCTGGCCCCCATGCTGAGTGACACAGACAAGAAGCCCTTCACTGCCATCCTGTATG
GCAATGGGCCTGGCTACAAGGTGGTGGGCGGTGAACGAGAGAATGTCTCCATGGTGGACTATGCTCACAACAAC
ACCAGGCGCAGTCTGCTGTGCCCCCTGCGCCACGAGACCCACGGCGGGGAGGACGTGGCCGTCTTCTCCAAGGGCC
CCATGGCGCACCTGCTGCACGGCGTCCACGAGCAGAACTACGTCCCCCACGTGATGGCGTATGCAGCCTGCATCG
GGGCAACCTCGGCCACTGTGCTCCTGCCAGCTCGGCAGGCAGCCTTGCTGCAGGCCCCCTGCTGCTCGCGCTGG
CCCTCTACCCCTGAGCGTCTGTCTGAGGGCCAGGGCCCGGGCACCCACAAGCCCGTGACAGATGCCAACTT
CCCACACGGCAGCCCCCCCCCTCAAGGGGCAGGGAGGTGGGGGCCCTCCTCAGCCTCTGCAACTGCAAGAAAGGGGA
CCCAAGAAACCAAGTCTGCGGCCACCTCGCTCCCCCTCTGGAATCTTCCCCAAGGGCCAAACCCACTTCTGGCC
TCCAGCCTTTGCTCCCTCCCCGCTGCCCTTTGGCCAACAGGGTAGATTTCTCTTGGGECAGGCAGAGAGTACAGAC
TGCAGACATTCTCAAAGCCTCTTATTTTCTAGCGAACGTATTTCTCCAGACCCAGAGGCCCTGAAGCCTCCGTG
GAACATTCTGGATCTGACCCTCCAGTCTCATCTCCTGACCCTCCCACTCCCATCTCCTTACCTCTGGAACCCCC
CAGGCCCTACAATGCTCATGTCCCTGTCCCCAGGCCAGCCCTCCTTCAGGGGAGTTGAGGTCTTTCTCCTCAGG
ACAAGGCCTTGCTCACTCACTCACTCCAAGACCACAGGGTCCCAGGAAGCCGCTGCCTGGGTGGCCATCCTACC
CAGCGTGGCCAGGCCGGGAAGAGCCACCTGGCAGGGCTCACACTCCTGGGCTCTGAACACACAGCCAGCTCCT
CTCTGAAGCGACTCTCCTGTTTGGAAACGGCAAAAAAAATTTTTTTTCTCTTTTGGTGGTGGTTAAAAGGGAA
CACAAAACATTTAAATAAACTTTCCAAATATTTCCGAGG

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FIGURE 79

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATAGATGTTCT
CCAGGCCTTTTAGAAAACATGGAGTTGTTCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAACGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTATCCAGTATGCTGCTAGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTGAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAGAATGATCAGAAAA
AGAGAGAAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGCAAAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTCACGGCATAATAGGTATTTAAAA
AAAAAAAAAGACCTCTGGGCTGT

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FIGURE 80

DRTQREERGEAPNRMF SRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGTPHKCYHGKTGRVYNVIQYAASIV
V NKQVKGKILAKRINVRIEHIKHSESRDSFLKRVKENDQKKREAKEKGTWVQLKRQPAPPSKAHFVRTNGKEPEL
LEPILYEFTA

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FIGURE 82

MQTIKCVVVG DGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQT
DVFLVCF SVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPETA EKLARDLK
AVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL

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FIGURE 83

CGCGCGCGCCATTTCTAGTCGTTTTCAAAGCGCCTCGCGCTGATTCTCACGGGCCCCGGCTGCCGGCCCCCGCTCT
GCCCTGCATAATAAAATGGCTAATCAGGTGAATGGTAATGCGGTACAGTTAAAAGAAGAGGAAGAACCAATGGAT
ACTTCCAGTGTAACACACAGAACTACAAGACACTGATAGAGGCAGGCCTCCACAGAAAGGTGGCAGAAAGA
CTTGATGAAATATTTTACAGACAGGATTGGTAGCTTATGTCGATCTTGATGAAAGAGCAATTGATGCTCTCAGGGAA
TTTAATGAAGAAGGAGCTCTGTCTGTACTACAGCAGTTCAAGGAAAGTGACTTATCACATGTTTCAAGCAAAAAGT
GCATTTTTATGTGGAGTTATGAAGACCTACAGGCAGAGAGAGAAACAGGGGAGCAAGGTGCAAGAGTCCACAAAG
GGACCTGATGAAGCGAAGATCAAGGCCTTGCTTGAGAGAACTGGTTATACTCTGGATGTAACCACAGGACAGAGG
AAGTATGGTGGTCTCCACCAGACAGTGTGTACTCTGGCGTGCAACCTGGAATTGGAACGGAGGTATTTGTAGGC
AAAATACCAAGGGATTTATATGAGGATGAGTTGGTGCCCTTTTTGAGAAGGCCGGACCCATTTGGGATCTACGT
CTTATGATGGATCCACTGTCCGGTCAGAATAGAGGGTATGCATTTATCACCTTCTGTGGAAGGAAGCTGCACAG
GAAGCCGTGAAACTGTGTGACAGCTATGAAATTCGCCCTGGTAAACACCTTGAGTGTGCATTTCTGTGGCAAAC
AACAGACTTTTTTGTGGATCCATTCCGAAGAATAAGACTAAAGAAAACATTTTGGAAGAATTCAGTAAAGTCACA
GAGGGTTTTGGTGGACGTTATTTCTCTATCATCAACCCGATGACAAAAGAAGAATCGGGGGTTCTGCTTCTTTGAA
TATGAGGATCACAAAGTCAGCAGCACAAAGCCAGACGCCGGCTGATGAGTGGAAAAGTAAAGTGTGGGGAAATGTA
GTTACAGTTGAATGGGCTGACCCTGTGGAAGAACCAGATCCAGAAGTCATGGCTAAGGTAAAGTTTTGTTTTGTG
AGAACTTTGGCTACTACGGTGACAGAAGAAATATTGGAAGAGTCATTTTCTGAATTTGGAAGAACTCGAAAGAGTA
AAGAAGTTGAAGATTATGCATTTGTTTCATTTTGAAGACAGAGGAGCAGCTGTTAAGGCTATGGATGAAATGAAT
GGCAAAGAAATAGAAGGGGAAGAAATTGAAATAGTCTTAGCCAAGCCACCAGACAAGAAAAGGAAAGAGCGCCAA
GCTGCTAGACAGGCCTCCAGAAGCACTGCGTATGAAGATTATTACTACCACCCTCCTCCTCGCATGCCACCTCCA
ATTAGAGGTCGGGGTCGTGGTGGGGGAGAGGTGGATATGGCTACCCTCCAGATTACTACGGCTATGAAGATTAC
TATGATGATTACTATGGTTATGATTATCACGACTATCGTGGAGGCTATGAAGATCCCTACTACGGCTATGATGAT
GGCTATGCAGTAAGAGGAAGAGGAGGAGGAAGGGGAGGGCGAGGTGCTCCACCACCACCAAGGGGGAGGGGAGCA
CCACCTCCAAGAGGTAGAGCTGGCTATTCACAGAGGGGGGCACCTTTGGGACCACCAAGAGGCTCTAGGGGTGGC
AGAGGGGGTCCTGCTCAACAGCAGAGAGGCCGTGGTTCCCGTGGATCTCGGGGCAATCGTGGGGGCAATGTAGGA
GGCAAGAGAAAGGCAGATGGGTACAACCAGCCTGATTCCAAGCGTCGTCAGACCAACAACCAACAGAACTGGGGT
TCCCAACCCATCGCTCAGCAGCCGCTTCAGCAAGGTGGTGACTATTCTGGTAACCTATGGTTACAATAATGACAAC
CAGGAATTTTATCAGGATACTTATGGGCAACAGTGGAAGTAGACAAGTAAGGGCTTGAAAATGATACTGGCAAGA
TACGATTGGCTCTAGATCTACATTTCTTCAAAAAAAAAAATTGGCTTAACTGTTTCATCTTTAAGTAGCATTTTGC
TGCCATTTGTATTGGGCTGAAGAAATCACTATTGTGTATAIACTCAAGTCTTTTTATTTTTCTTTTCATAAA
TGCTCTTGACATTATTGGGCTTGACAGAGTTCCCTTATTCCTGGGATTACAATGCTTTTATCGTTTCAGGCTTCA
TTTTAGCTTCAAAACAAGCTGGGCACACTGTTAAATCATGATTTTGCAGAACCTTTGGTTTTGGACAGTTTCATT
TTTTTGGATTTGGGATAGATTACATAGGAGTATGGAGTATGCTGTAAATAAAAAATACAAGCTAGTGCTTTGTCTT
AGTAGTTTTAAGAAATTAAAGCAAACAAATTTAAGTTTTCTTGATTGAAAATAACCTATGATTGTATTTTTGC
ATTCCTAGAAGTAGGTTAACTGTGTTTTTAAATTGTTATAACTTCACACCTTTTTGAAATCTGCCCTACAAATT
TGTTTGGCTTAAACGTCAAAAGCCGTGACAAATTTGTTCTTTGATGTGATTGTATTTCCAATTTCTGTTCATGTA
AGATTTCAATAAAACTAAAAATCTATTCAAACATTA

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FIGURE 84

MANQVNGNAVQLKEEEEPMDTSSVTHTEHYKTLIEAGLPQKVAERLDEIFQTGLVAYVDLDERAIDALREFNEEG
ALSVLQQFKESDLSHVQNKSAFLCGVMKTYRQREKQGSKVQESTKGPDEAKIKALLERTGYTLDDVTGQRKYGGP
PPDSVYSGVQPGIGTEVFVGKIPRDLYEDELVPLFEKAGPIWDLRLMMDPLSGQNRGYAFITFCGKEAAQEAVKL
CDSYEIRPGKHLGVCISVANNRLFVGSIPKNKTENILEEFSKVTEGLVDVILYHQPDDKKKNRGFCFLEYEDHK
SAAQARRRLMSGKVKVWGNVTVIEWADPVEEPDPEVMAKVVLVVRNLATTVTEEILEKSFSEFGKLERVKKLKD
YAFVHFEDRGA AVKAMDEMNGKEIEGEEIEIVLAKPPDKRKERQAARQASRSTAYEDYYYHPPPRMPPPIRGRG
RGGGRGGYGYPPDYGYEDYYDDYYGYDYHDYRGGYEDPYGYDDGYAVRGRGGGRGGRGAPPPPRGRGAPPPRG
RAGYSQRGAPLGPPRGRSGRGGGPAQQQRGRGSRGSRGNRGGNVGGKRKADGYNQPD SKRRQTNNQQNWGSQPIA
QQPLQQGGDYSGNYGYNNDNQEFYQD TYGQQWK

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FIGURE 85

CGGACTGGCAGGGGGCAGGGAAGCTCAAAGATCTGGGGTGCTGCCAGGAAAAAGCAAATTCGGAAGTTAATGGT
TTTGAGTGATTTTTAAATCCTTGCTGGCGGAGAGGCCCGCCTCTCCCCGGTATCAGCGCTTCCTCATTCTTTGAA
TCCGCGGCTCCGCGGTCTTCGGCGTCAGACCAGCCGGAGGAAGCCTGTTTGCAATTTAAGCGGGCTGTGAACGCC
CAGGGCCGGCGGGGGCAGGGCCGAGGCGGGCCATTTTGAATAAAGAGGCGTGCCTTCCAGGCAGGCTCTATAAGT
GACCGCCGCGGCGAGCGTGCGCGCTTGCAGGTCACTGTAGCGGGACTTCTTTTGTTTTCTTTCTCTTTGGGGC
ACCTCTGGACTCACTCCCCAGCATGAAGGCGCTGAGCCCGGTGCGCGCTGCTACGAGGCGGTGTGCTGCCTGTC
GGAACGCAGTCTGGCCATCGCCCGGGGCCGAGGGAAGGGCCCGGCAGCTGAGGAGCCGCTGAGCTTGCTGGACGA
CATGAACCACTGCTACTCCCGCCTGCGGGAAGTGGTACCCGGAGTCCCGAGAGGCACTCAGCTTAGCCAGGTGGA
AATCCTACAGCGCGTCATCGACTACATTCTCGACCTGCAGGTAGTCTTGCCGAGCCAGCCCCCTGGACCCCCCTGA
TGGCCCCCACCTTCCCATCCAGACAGCCGAGCTCACTCCGGAAGTTGTCATCTCCAACGACAAAAGGAGCTTTTG
CCACTGACTCGGCCGTGTCCTGACACCTCCAGGTGAGTATCTCCTCTCTTGGAGAGGGAGGTTTAAACGGCAAGT
CCTGGAGTTGGCAGACGTTTTGAAAAATTGCCACTCACTCGGTTTAGGGAACTGAGGCCAGAGAGGGACAAGTG
ACTTGCCCATGGTTG

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FIGURE 86

MKALSPVRGCYEAVCCLSERSLAIARGRGKGPAAEEPLSLDDMNHCSRLRELVPGVPRGTQLSQVEILQRVID
YILDQLQVVLAEPAAGPPDGPHLPIQTAEITPELVISNDKRSFCH

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FIGURE 87

TTCTCTTCCTGCTCTCCATCATGGCGCAGGATCAAGGTGAAAAGGAGAACCCCATGCGGGAACCTTCGCATCCGCA
AACTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAGACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCA
CAGGGCAGACCCCTGTGTTTTCCAAAGCTAGATACACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGATTG
CTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATCTTGAGAAGGGTCTAAAGGTGCGGGAGTATGAGT
TAAGAAAAAACAACCTTCTCAGATACTGGAACTTTGGTTTTGGGATCCAGGAACACATCGATCTGGGTATCAAAT
ATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGTGCTGGGTAGGCCAGGTTTCAGCATCGCAGACA
AGAAGCGCAGGACAGGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAGA
AGTATGATGGGATCATCCTTCCTGGCAAATTAAATTCCCCTTCTATCCAAAAGAGCAATAAAAAGTTTTTCAGTGA
AATGTGCAA

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FIGURE 88

MAQDQGEKENPMRELRIKLCCLNICVGESGDRLTRAAKVLEQLTGQTPVFSKARYTVRSFGIRRNEKIAVHCTVR
GAKAEEILEKGLKVREYELRKNNFSDTGNFGFGIQEHIDLGIKYDPSIGIYGLDFYVVLGRPGFSIADKKRRTGC
IGAKHRISKEEAMRWFQQKYDGIILPGK

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FIGURE 89

GGAAGTTCCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTCTGCGGGAGAAAGAGGAGAATCGCCCAAGCGGCCTC
GGAAGTCCCAGGGAGTGGAGGCCCCCGCCGTGGAGCCGTGTGGTGTATCTGTGGTAACACCATGTCTGTGCCCCCT
GCTCACCGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGCGGTTATTTTTTTTACATGGACTTGGAGA
CACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATCCGGCTCCCTCACGTCAAGTACATCTGTCCCCATGCGCC
TAGGATCCCTGTGACCCTCAACATGAAGATGGTGTATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGC
CCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGG
GATCCCTGCCAATCGAATCGTCTCTGGGAGGCTTTTTCACAGGGCGGGGGCCCTGTCCCTCTACACGGCCCTCACCTG
CCCCACCCCTCTGGCTGGCATCGTGGCGTTGAGCTGTCTGGCTGCCTCTGCACCGGGCCCTTCCCCAGGCAGCTAA
TGGCAGTGCCAAGGACCTGGCCATACTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGC
CCTGACGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACCCGGGTGTCTATGCA
CAGCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGC
TGGCCCCAGTGACGTACCCAGCTCATGGGGGACTCAGCAAGCAAGCGTGGCACCATCTTGATCTGAGCCGGTC
GAGCCCCCTGTCCCCACCCCTTCTGACCTGTCTTTTCCCACAGGCCTCTGGGGGCAGGTGGCAAGGCCTGGCCGG
GCCTTCCTTCCTGGCCTTAGCCACCTGGCTCTGTCTGCAGCAGGGGCAGGCTGCTTTCTTATCCATTTCCCTGGA
GGCGGGCCCCCTGGCAGCAGTATTGGAGGGGCTACAGGCAGCTGGAGAAAGGGGCCAGCCGCTGACCCACTCA
CTCAGGACCTCACTCACTAGCCCCGCTTTGGGCCCCCTCCTGTGACCTCAGGGTTTGGCCATGGGGCCCCCA
GGCCCCCTGCCCCAACTGATTCTGCCAGATAATCGTGTCTCCTGCCTCCACTCAGCTGCTTCTCAGTCATGAATG
TGGCCATGGCCCCGGGGTCCCCTTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGTGGTGAGGAGGTGGAG
CCTTTTGAGGGGGGCTTCCCTCAGCTGTTTCCCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCCTCCTT
CCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTTCAAGTCTCCCCCAGCTGTCTACCCCCACTTTGTCC
CCTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTCGTCTTCTGTCTCCATGTGGTTTTTGGGTGTTTT
TCTTGTGTGTCTGATTCCGATAAAATTAAAGAAATTGCTTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 90

MCGNTMSVPLLTDAATVSGAERETAAVIFLHGLGDTGHSWADALSTIRLPHVKYICPHAPRIPVTLNMKMVMPSW
FDLMGLSPDAPED EAGIKKAAENIKALIEHEMKN GIPANRIVLGGFSQGGALSLYTALTCPHPLAGIVALSCWLP
LHRAFPQAANGSAKDLAILQCHGELDPMVPVRFGALTAEKLRVVT PARVQFKTYPGVMHSSCPQEMAAVKEFLE
KLLPPV

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FIGURE 91

AGAAGGAGAAGGTCGGGTTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGGTGTTTCGTGGGCTTTGTCGGTC
CGTGCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCGACGTCGAGAGGGAGCCGCTGCCGCGTTAGTTCCGAGC
TTGAAGTCACTAGGACTTCTCTCAAACCTTGTGTGCTGAGGAGACTCAGATGTTGGCCTCAGCTCCTAGGCTGAAC
TCAGCAGATCGGCCCCATGAAAACCTTCTGTATTGAGACAAAGGAAGGGATCTGTGAGAAAAGCAACACTTGTTATCT
TGGGCTTGGCAGCAAGGAAGAGGACAGGTAGTGGAGATCCTGCAATCTGAAAAGCAGACTGAAAGGTGACAAAGA
AGCTGAAGATCGGTTGGTGGAGAGAGGTATAACATTCCAGCCCCCTCAATCTAGAAATGTTAGTAAGAACCAACAAC
AGCTTAACAGACAGAAGACCAAGGAACAGAATTCAGATGAAGATTGTTTCATAAGAAAAAGAAAGAGGACATG
GTTATAACTCATCAGCAGCTGCCTGGCAGGCCATGCAAAATGGGGGGAAGAACAAAAATTTTCCAAATAATCAAA
GTTGGAATTCTAGCTTATCAGGTCCCAGGTTACTTTTTAAATCTCAAGCTAATCAGAACTATGCTGGTGCCAAAT
TTAGTGAGCCGCCATCACCAAGTGTTCTTCCCAAACCACCAAGCCACTGGGTCCCTGTTTCCTTTAATCCTTCAG
ATAAGGAAATAATGACATTTCAACTTAAAACCTTACTTAAAGTACAGGTATATAAATAAGACAAATGTTTAAATTT
AGTTATGTTTACGGATAGTTGTCAATTGGTCTGAAACAAATTCGCTAGGGAATCTATTTGTGTAGAATAATTAA
TGTAACAAAAACAGACCATCTCGTGTGTGTGCACTGTGATATAATGGTAGTATCAGTGCAACTTTAATGATTGT
ACTTGATATTAAGTGTTCTCAACTGAGTAACTTTTAAAGTGGAAACCAAGTTTAGATTGGGGAGTGTTAAAGGAA
TCAGCTTTTTCTATTGTTAGGGGAAGACAGTAATTTATCATTATGACAGTAGATTGTTGAAAGTTGGTGAAT
CGGATTATAAGCTTCTAGCTAACACAAGGATTGAGAATTAGGTAAACATCTGAAGGTTTAGTATATTAGAAACAC
CCAAACCAGTAATATGCTAACCTGATGCACTGCTGAAAGAAAATGTGAATTTTTCGTAATAATTGCATTTTAGTG
AATTGTACAGTGGGTGGAAAGGGCATTGGAGCTCATTAGAATGAGACATAGTACACCCCAATGGCCCTGTTTAT
TAAATGTAGTGGATTAAGTGCTGTCAACAAATACACCAAACCATTTTTTATAGAAACAGTATTTAATGGTCAC
TCAATAGCTTTCAAATAACATTTTTGTATTACAGCACTGCACAAGCTATTCTAATAGTGCTCTCGCCTCATCATT
CCTGCAAAGCTTGCTTTGGGGAGTTGGATAATGTGAAAATTTTAAAGTACCTAGGGGAGAAAAGAGCCATGTAAATA
TCTGTAATAAACTTGTAGCATATGTAAAGTTTTCTTGGCCTTTATCTTACAAAAATGGAGTATTTTAGTATGAAT
TTGCTGAATGTAAGACCGTGGACTGTTTTTTATAATATGGCCTAATTTTAAAGGTCCAAAATAACTTGTTTTTAA
AGTTTGCCCTTGTGCTAAAGTGCCAGTGTATGTATGTTATACTTGATTTGGTTGTAAACTATATTTCAAAGTAAA
CCCTAGTGTAATAAGTTTTATAACTAAAAAGGTTTAAAGCTGCTAAACTATTTTTAAGAGATGTAAGTGCAGTA
TGGGACTATCTTTTTTTCCTCCTCTAAGCCCAAAGATTAAGTAGAGTCCCTCCAACCTTATAGATTGTTGGCTTT
CACAATCTTATAACCTAGGATACAGGTAGTTTCGAGTATGGTGCCAGTGATGTTTTGTTTTGTTTGGTCAAGGG
GTAGGTGCAACCCAATGGACCACTTATGCAAAAGATGTAACTCTTGATAATACATTGATAACATGTTTTGCCA
ACTTTAAATGCTTAAACATAAGCGAAACAGTAGCAAGTATGTGGGTGAGCTTAAAAATTTTGATTGTTAATGCC
CTATTTTCTAATTTGGCACCTCTTGATGCCTAAGCAGGTAAGCAGATGCCTAAGCTGTATTTCTCCAAATAAATC
AAGATGAAGTACTGCCCAAGTTAAATATTGATAGCCTAAGACAAGTTTATGTAGTACTTAATGTACATGATATG
AATGTGAAGCATAAAATTAAATAAAATTTTTCCCATTAAAAA

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FIGURE 92

MGGGERYNIPAPQSRNVSKNQQLNRQKTKEQNSQMKIVHKKKERGHGYNSSAAAWQAMQNGGKNKNFPNNQSWN
SSLSGPRLLFKSQANQNYAGAKFSEPPSPSVLPKPPSHWVPVSFNPSDKEIMTFQLKTLLKVQV

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FIGURE 93

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCGCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTGAGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACCTATAGAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGACCAAACCTGCAGCTGGAATACCCAGTACAGTTC
TGCTTACTACACTTCAAGAAAAGATCTTGAAAGCGGAAAAAGAACCAGAAAGAGGGCAGTTCAAGCGACCAAAGGGTG
GGTGGAAGGTGCTGCAGTATGAATACTGTACGAATATTTTGACTCTGGTCTGAAAAGATAAAAGAAATGTTATCGA
AACTACATGGAATAATTGAAGTCCCTTCAAGTTTGAAAGTAAGCATTTTAGGACAAATAAAAGGAAATTCAACT
TTGTACTTGTGGAAACTAATCCCTAAATATGAATAGGTTTATATTGATTCATGGGTAACAGGTCCATAATAAATT
ATTGGAACTAGGATGTCTGAATATCAAGGAAGACAGCCATAGTCTCTTACAGTGCCTCTGTTGGTCTGTCTCAA
ACTGAATTGGGTGGGAAAAGGTATGGTCCAATATAAAAGTTCCATTTTGGCATTATTGGCAAATCTTGCCTTTG
TTTATTTTGGTGCCAGTGTTTTCTGCTTAATCATTGCTTTGTTGGCATCTGTGTTTATTACTTGTACACCACA
TGCAGTTTACATCTGTCTTAATACTACTCCTTCCAGGTAAATTCCAATTATATTTGACATCCAGCTAAGAGGGCCC
ATCTCTTCTCACCTCTTTCCTAGTCAGTATATTCAGCAAATATTTATTGAGCCCTTACTGTGGGCAAAATCATTGT
ACTGGATAATTGAGAAAAATAGATAATTCCCTTATTCAGTAAATGTCTACTGAGCACAATCTAGTGAATCATTAC
AGTATGGCCTCATTGTTTTGTTTGAGGTGTGTTATTCATAACAATATTTTACACCATTTCGTATCAATGTAATTAT
AGAACACAATATACGATCAAGGATAAGTAATTGTGTGGTTATCTGCCATTTAAAAGTATCCAGTATTTGATCACA
TTATTATAAATAATGAAAAAATGATTTAATCTGTAATAAACTGGTTTATTGTGCAGTGACTGTAATATACTAGAG
TTATAATAAATTGTTTACTCTGCCTCACCAAACACATGCTAGGATATAACCCCCAAAATAAGTATTTAACTTTGC
ATTAGGTATAAAGGAGACTGGGTGCTATAATTAGATTATTTTGAGGCAGACAGAGAGCTGTTATCCTAACTGATT
TAGTATGTTCTGTAATTGAGAAAATGTTACCAAATTATACTTTTGTAGTATTTACATGTACATTTTATAGGGGA
CATGTTCTGTGTATAGCGAATAAATAACTTTTATAGTATCAC

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FIGURE 94

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDKRW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYYDDYDRYRRSRRSYERRRSRRSFDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRPNCWNTQYSSAYYTSRKI

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FIGURE 95

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCCGTACCTGCGTCCCCCAACACGTCTCTGTTCGTCAGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATATAGAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTTCAAGATC
TAAATCCAATTCAAGATCACGGTCCAAGTCCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGC
ATCTCACACCAAACTAGAGGCACCTCTAAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATATGAAAA
GGAATCAAGGAAAAAGAACCACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
ATCAAGGTCTTGACTAGTCCTAAGTCCAGTGGCCACT**CGA**TAGTATAAACCATGGTCATTTTTAGGCATGTATCA
TTCATTTACTCATAGTTTGGTTTACTTAAATATCAGGAATACAATGTTGCAATGATGCTTAAAAACACTTGTT
AGTTTTCCCTGTACCAGGCAATGGTTATAATTAAATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GTTTAATGTTATGGGCAGCTACCAATTTGTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTTATGCTTG
AAGTATTTGGTGAAAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAAAAATAAACTTTTCATATTCAT
ATTTGGTAGAACTGTTAACTTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTTCAGGGTGGACCTTTATGTCTTGTCAGATGTCTAGGCCCGG
CTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTT
CGAGACCAGCCTGACCAACACGGTGAAACCCCGTCTCTACTAAAATAACAAAATTATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCTGGGAGGTAGAAGTTGCAGTGAG
CCAAATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTATTTTGATGCAGTGTGGATTAGTTCTTTTGTTAACCCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTGACTGAAACATGGAGCCTTCACTGCTTTTTTCTGGTTCCTATGAAGATTG
GAACATAGAAAACACAAAACTCACCTTAAATTTGAGCAGGTCGTTGATGGCAAAAATAATTTTAAGGAAAAAG
GAATATTCTTATGTAGTTATTCTAAAGTTTAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTTCAAAGTAGGTTTTGTGTGTGTGTCCTAGTGTAAGAAGTGAATTTTGATGCTT
ACAGCACTTGGCTCGTGCAATTTGTATCAAAATTTGCCTGCCTCTTTATGAGGGAGGCCTGCTTTTCACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTCTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGAAAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTGAGCTTTCGATTATCAGTGTAGTACCTGA
CTAAAATGAAGTAATACCTTAAACCATTTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTGACATGTCCAATTTCAATTCAGAATAAAAAGCTAGCATCTTTAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCCTTTTAGAGGATTACTTTTTCAATTTTCGGTTTTAGTAATCTAGGC
TTTGCTGTAAAGAATACAACGATGGATTTTAAATACTGTTTGTGGAATGTGTTTAAAGGATTGATTCTAGAACC
TTTGTATATTTGATAGTATTTCTAACTTTCATTTCTTACTGTTTGCAGTTAATGTTTCATGTTCTGCTATGCAAT
CGTTTATATGCACGTTTCTTTAATTTTTTAGATTTTCCTGGATGTATAGTTTAAACAACAAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTTATAGA
GGCTTCTAAAAGGTATTTTTATATGTTCTTTTTAACAAATATTGTGTACAACCTTTAAAACATCAATGTTTGA
TCAAAACAAGACCCAGCTTATTTTCTGCTTGCTGTAAATTAAGCAAACATGCTATAATAAAAACAAAATGAAGG

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FIGURE 96

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDKRW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYYDDYDRYRRSRRSYERRRSRERSFDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRFKHRNRSFSRSKSNRSRSKSKQPKKEMKAKSRRSASHTKTRGTSKTDSKTHYKSGSRYEK
ESRKKEPPRSKSKSRSRSKSKSRRSWTSPKSSGH

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FIGURE 97

AGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGC GG TGCCCAAGGAGGCCGAGCTGGCTCCAAGGCT
GCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGT TTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAAT
CCTTGCTCTGCGACGGACTATTCCCTGGCTGCAGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTT
ACTGACTATGTTTCATGGGGATGCCTCGCAGAAAGCTGCCAAGGCAGGGCTTTTGGCATT TTTAGCTTTAACCTTT
GCTGGGCTTTGCTATTTCAACTATCACGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCT
TTTTGACTTCCTACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACAATAA
GGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAACT
TTGAGGAAAAGGTTTGAGAGGAATTATATTTAAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTT
GCCTCCCGCTTCTTATAAGACTCACAGTATAACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATC
TCTTAAAGAGAATC

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FIGURE 98

CAGGAACGAGATGGCGGTTCCCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTCTGTTGCTGCG
AACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTTCTTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGCA
GCACATACACTTGTCAACGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTGT
CAGTGTTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGACGGACTATTCCCTGGCTGC
AGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTTACTGATTATGTTCA TGGGGATGCCTCGCAGAA
AGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATGT
GGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTTGACTTCCTACTTTGAAGAATTGATGTAT
GCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGCCCATTGGTGGAC
AGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAAATTAATCTTTGAGGAAAAGGTTTGAGAGGAATTATATCT
AAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTTGCCCTCCAGCTTCTTATAAGACTCACAATAT
AACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATCTCTTAAAGAGAATCCAGCTTTATTATGATTA
GTACATGATCAAATTTCCATATTTGCCTTGGAATAATGGACAAAGGGAATACTCTTAATTCATGAATAAAAAC
TTTGCAGAAAATTAGACAGTGTTAATTTTCAAAAACCTCCCTCTCTAGTCAGTAGATACCACCTACTGATGGTT
ACATATACTAGGGAAATTTTAAAATTAGGAAATGCTGCTATCTCATATTATAAATTTCTAAATCCTAGGAAGAAA
CGCTTGAGTGCTTCTGAAGATACAGAAGTTCCATTTAAGGGCAAGTTTCCCAGAGACATATCAAATATTATC
CATTGTAAACTGAGATTTAATTCTCAAATGTATTCTACTTGTCTAAAACAATCTGTCCACAAATATAAACTAT
AAGTAATAAATTGTTATTTCCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTTAA
ATAAAATGTTGTATAAAAAAA

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FIGURE 99

AGAGAGAAAGGTTGTGATGGCGGCTATAGCTGCATCCGAGGTGCTGGTGGACAGCGCGGAGGAGGGGTCCCTCGC
TGCGGCGGCGGAGCTGGCCGCTCAGAAGCGCGAACAGAGACTGCGCAAATTCCGGGAGCTGCACCTGATGCGGAA
TGAAGCTCGTAAATTAAATCACCAGGAAGTTGTGGAAGAAGATAAAAGACTAAAATTACCTGCAAAATTGGGAAGC
CAAAAAAGCTCGTTTGGAGTGGGAACTAAAGGAAGAGGAAAAGAAAAAGGAATGTGCGGCAAGAGGAGAAGACTA
TGAGAAAGTGAAGTTGCTGGAGATCAGTGCAGAAGATGCAGAAAGATGGGAGAGGAAAAAGAAGAGGAAAAACCC
TGATCTGGGATTTTCAGATTATGCTGCTGCCAGTTACGCCAGTATCATCGGTTGACCAAGCAGATCAAACCTGA
CATGGAAACATATGAGAGACTGAGAGAAAAACATGGAGAAGAGTTTTTCCCAACATCCAATAGTCTTCTTCATGG
AACACATGTGCCTTCCACAGAGGAAATTGACAGGATGGTCATAGATCTGGAAAAACAGATTGAAAAACGAGACAA
ATATAGCCGGAGACGTCCTTATAATGATGATGCAGATATCGACTACATTAATGAAAGGAATGCCAAATTCACAA
GAAAGCTGAAAGATTCTATGGGAAATACACAGCTGAAATTAAACAGAATTTGGAAAGAGGAACAGCTGTCTTAATC
CCTTCAAGAACTGTTTATAGAAGCTTGAGAATGGGGTAAAAATTTCTGCTAGCAAAATCAAGTTCTTTTGAAT
TTTATCAGTAATCCAGAATTTAGTAGTCCATGCCTTCTCACTCAGCATTTAGAAATAAAAAATGTGGTTTCTTAAA
CGTATATCCTTTTCATGTATATTTCCACATTTTGTGCTTGGATATAAGATGTATTTCTTGTAGTGAAGTTGTTTT
GTAATCTACTTTGTATACATTCTAATTATATTATTTTCTATGTATTTTAAATGTATATGGCTGTTTAATCTTTG
AAGCATTTTGGGCTTAAGATTGCCAGCAGCACACATCAGATGCAGTCATTGTTGCTATCAGTGTGGAATTTGATA
GAGTCTAGACTCGGGCCACTTGGAGTTGTGTACTCCAAAGCTAAGGACAGTGATGAGGAAGATGGCAGTGGCCAC
CGGAGGACTGGAGCAGTCCCTCCTCATGGCGGCCTGTGACCAAGGTCGGGGAGGAGTGGAGCTATCCTTCCATGA
TCTGATCATGTACAGTTCCTTTTTTAAAAAGCAATAAATGCTTGGGATTAGAATTTCTAAAAA

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FIGURE 100

MAAIAASEVLVDSAEEGSLAAAAELAAQKREQRLRKFRLEHLMRNEARKLNHQEVVEEDKRLKLPANWEAKKARL
EWELKEEEKKKECAARGEDYEKVKLLEISAEDAERWERKKKRNPD LGFSDYAAAQLRQYHRLTKQIKPDMETYE
RLREKHGEEFFPTSNSLLHGTHVPSTEEIDRMVIDLEKQIEKRDKYSRRRPYND DADIDYINERNAKFNKKAERF
YGKYTAEIKQNLERGTAV

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FIGURE 101A

GGCGGCCCACTCTGCTCTGTCTGTCAGCTTCGGAGCTCCTCCACCCTGGCTGCCGAAAGCCCCTTCCCGCCATCTAATG
ATACACTCTGCATACGCTTCTGTTGAGAATTTGTGGCTAGACATTCTGTGGGACCGGGAATCCAAATTTCTTGGT
AGCTAGAGGAAAAAATAAAACAACAGCCAACCAAGTGAATCCCAACCCAACCCCTGAAGGGCTGAAAATTC
TCGCCTTCTTCAGAGCGGGGCATGGCATCGAACAGCATCTTCGACTCCTTCCCGACCTACTCGCCGACCTTCATC
CGCGACCCAAGCACCAGCCGCCGCTTCACACCTCCCTCCCCGGCCTTCCCCTGCGGCGGGCGGGCGGGCAAGATG
GGCGAGAACAGCGGCGCGCTGAGCGCGCAGGCGGCCGTGGGGCCCCGGAGGGCGCGCCCCGGCCCCGAGGTGCGCTCG
ATGGTGGACGTGCTGGCGGACCACGCAGGCGAGCTCGTGCGCACCAGACAGCCCCAACTTCTCTGCTCCGTGCTG
CCCTCGCACTGGCGCTGCAACAAGACGCTGCCCCGTGCGCTTCAAGGTGGTGGCATTGGGGGACGTGCCGGATGGT
ACGGTGGTGA CTGTGATGGCAGGCAATGACGAGAACTACTCCGCTGAGCTGCGCAATGCCTCGGCCGCTCATGAAG
AACCAGGTGGCCAGGTTCAACGACCTTCGCTTCGTGGGCGCAGTGGGCGAGGGAAGAGTTTACCCCTGACCATC
ACTGTGTTTACCAACCCACCCAAAGTGGCGACCTACCACCGAGCCATCAAGGTGACCGTGGACGGACCCCGGGAG
CCCAGACGGCACCGGCAGAAAGCTGGAGGACCAGACCAAGCCGTTCCCTGACCGCTTTGGGGACCTGGAACGGCTG
CGCATGCGGGGTGACACCGAGCACACCCAGCCCCGAGGCTCACTCAGCACCACAAGCCACTTCAGCAGCCAGCCC
CAGACCCCAATCCAAGGCACCTCGGAAC TGAACCCATTCTCCGACCCCCGCCAGTTTGACCGCTCCTTCCCCACG
CTGCCAACCTTCACGGAGAGCCGCTTCCAGACCCAGGATGCATTATCCCGGGGCCATGTCAGCTGCCTTCCCC
TACAGCGCCACGCCCTCGGGCACGAGCATCAGCAGCCTCAGCGTGGCGGGCATGCCGGCCACCAGCCGCTTCCAC
CATACCTACCTCCCGCCACCTTACCCGGGGGCCCGCAGAACAGAGCGGGCCCTTCCAGGCCAACCCGTCCCCC
TACCACCTCTACTACGGGACATCCTCTGGCTCCTACCAGTTCTCCATGGTGGCCGGCAGCAGCAGTGGGGGCGAC
CGCTCACCTACCCGCATGCTGGCCTCTTGACACAGCAGCGCTGCCTCTGTGCGCGCCGGCAACCTCATGAACCCC
AGCCTGGGGCGGCCAGAGTGATGGCGTGGAGGCCGACGGCAGCCACAGCAACTCACCCACGGCCCTGAGCAGCCCA
GGCCGCATGGATGAGGCCGTGTGGCGGCCCTACTGACCGCCCTGGTGGACTCCTCCCGCTGGAGGCGGGGACCCT
AACAACCTTCAAGACCACTGATGGGCCGGCTCCGAGGCTCCGGGCGGGAATGGGACCTGCGCTCCAGGTTGGTCT
CGGTCCCAGGGTGGTCCCAGCTGGTGGGAGCCTCTGGCTGCATCTGTGCAGCCACATCCTTGTACAGAGGCATAG
GTTACCAACCCCAACCCCGGCCCGGGATACTGCCCCCGGCCAGATCCTGGCCGTCTCATCCCATACTTCTGTGGG
GAATCAGCCTCCTGCCACCCCCCGGAAGGACCTCACTGTCTCCAGCTATGCCCAGTGCTGCATGGGACCCATGT
CTCCTGGGACAGAGGCCATCTCTCTTCCAGAGAGAGGCAGCATTGGCCACAGGATAAGCCTCAGGCCCTGGGAA
ACCTCCCGACCCCTGCACCTTCGTTGGAGCCCTGCATCCCTGGGTCCAGCCCCCTCTGCATTTACACAGATTT
GAGTCAGAACTGGAAGTGTCCCCACCCCCACCACCTCGAGCGGGGTTCCTTCTATTGTACAGATGGGGCAGG
ACCCAGCAGCTGCTGGCAGAGATGGTTTGAGAACACATCCAAGCCAGTCCCCCAGCCAGCTTCCCTCCGTT
CCTAACTGTTGGCTTTCCCCCAGCCGCACGGGTCCCAGGCCCCAGAGAAGATGAGTCTATGGCATCAGGTTCTTA
AACCCAGGAAAGCACCTACAGACCGGCTCCTCCATGCACCTTACCAGCTCAACGCATCCACTCTCTGTTCTCTTG
GCAGGGCGGGGGAGGGGGGATAGGAGGTCCCTTTCCCTAGGTGGTCTCATAATTCCATTTGTGGAGAGAACAG
GAGGGCCAGATAGATAGGTCTTAGCAGAAGGCATTGAGGTGAGGGATCATTTTGGGTGAGACATCAATGTCCCTG
TCCCCCTGGGTCCAGCCAAGCTGTGCCCCATCCCCAAGCCTCCTGGGAGGATCCAGCCAAATCTTGCGACTCC
TGGCACACACCTGTCTGTAACCTGTTTTGTGCTCTGAAAGCAAATAGTCTGAGCAAAAAAAAAAAAAAAAAACAAA
AAAAAAAAAAAAAAAAACAAACAGTTTTTTAAACTGATTTTAGAAAAAGAAAGCTTAATCTAACGTTTTTCAAACACA
AGGTCTCTTACAGGTATAGTTCCGTGATTATGATAGCTCTGTGATTATAAGCAACATCCCCGCCCCCTCTCCCCC
CCGCGGACCCCCAGCTGCCTCCTGAGGGTGTGGGGTTATTAGGGTCTCAATACTTTCTCAAGGGGGCTACACTCCC
CATCAGGCAGCATCCCACCAGCCTGCACCACAGGCTCCCTGGGAGGACGAGGGAAACGCTGATGAGACGCTGGG
CATCTCTCCTCTGTGGCTCTAGGACATCTGTCCAGGAGGCTGGGCGGAGGTGGGCAGGATGTGAGAGGTGGGGAG
TACTGGCTGTGCGTGGCAGGACAGAAGCACTGTAAAGGGCTCTCCAGCCGCAGCTCAGCTGCCTGCGTTCCGAG
GTGAAGTCTTGCCCTGAATTTTGCAAAATGGGAAAGTGGGCGCTTGCCCAAGGGCCAGGCTGCATGGATTCTCA
CATCAGAGTTCTCTGGCCCTAGAAAGCCTTAGAAAAGGCGTAAGGGAACCTCATAAAGGCTAGCAGCATGCGGTAT
TTAACTTTCTGCCTCGGCCTCTGTGGATGCAGAAATCTGCCCTACAAAATGCTCTTCATTGGTTGTCTCTGTGA
GAGCACTGTCCCCACCCAACCTGTCAACGGCCAGAACCATACACCAGAGACACACTGGCAGGTTAGGCAGTCC
TTCTGGTGATCCTATTCCATTCCCTCCTGCTGCGGTTTCTCTTGGCCTGTCTCACTGGA AAAACAGTCTCCATC
TCCTCAAAATAGTTGCTGACTCCCTGCACCCAAGGGGCTCTCCATGCCTTCTTAGGAAGCAGCTATGAATCCAT
TGTCCTTGTAGTTTCTTCCCTCCTGTTCTCTGGTTATAGCTGGTCCAGGTCAGCGTGGGAGGCACCTTTGGGTT

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FIGURE 101B

CCCAGTGCCCAGCACTTTGTAGTCTCATCCCAGATTACTAACCCTTCCTGATCCTGGAGAGGCAGGGATAGTAAA
TAAATTGCTCTTCCTACCCCATCCCCATCCCCTGACAAAAAGTGACGGCAGCCGTACTGAGTCTGTAAGGCCCA
AAGTGGGTACAGACAGCCTGGGCTGGTAAAAGTAGGTCCTTATTTACAAGGCTGCGTTAAAGTTGTACTAGGCAA
ACACACTGATGTAGGAAGCACGAGGAAAGGAAGACGTTTTGATATAGTGTTACTGTGAGCCTGTCAGTAGTGGGT
ACCAATCTTTTGTGACATATTGTCATGCTGAGGTGTGACACCTGCTGCACTCATCTGATGTAAAACCATCCCAGA
GCTGGCGAGAGGATGGAGCTGGGTGGAAACTGCTTTGCACTATCGTTTGCTTGGTGTTTGTTTTAAACGCACAAC
TTGCTTGTTACAGTAAACTGTCTTCTGTACTATTTAACTGT

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FIGURE 102

CAGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTCTGTTGCTGCG
AACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTTCCTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGCA
GCACATACACTTGTACCCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTGT
CAGTGTTTTGCTCCCGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGACGGACTATTCCCTGGCTGC
AGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTCGCAGAA
AGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATGT
GGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTGAATTCCTACTTTGAAGAATTGATGTAT
GCCTCTTTGCCTCTGCTTTGTTCATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGAC
AGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAAATTAACCTTTGAGGAAAAGGTTTGAGAGGAATTATATTTA
AGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTTGCCTCCCAGCTTCTTATAAGACTCACAGTATA
ACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATCTCTTAAAGAGAATCCAGCTTTAGTATGATTAG
CATATGATCAAACCTCCATATTTGCCTTTGGGAATAATGGACTAAGGGAAATACTCTTAATTCATGAATAAAAAC
TTGCAGAAAATTAGACAGTGTTTAAATTTTCAAAAACCTCCCTCTCTAGTCGGTAGATAACCACTACCGATGGTTA
CATATACTAGGGAAATTTTAAAATTAGGAAATGCTGATATCTCATATTATAAAATTTCTAAATCCTAGGAAGAAAC
GCTTGGAGTGCTTCTGAAGATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCATAGACGTATCAAAAATATTACCC
ATTGTAAACTGAGATTTAATTCTCAAATGTATTCTACTTGTCTTAAACAATCTGTCCACAAATATAAAACTATA
AGTAATAAATTGTTATTTTCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTGTGAAAATAAATTTTAAAT
AAAATGTTGTATAATAA

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FIGURE 103

AGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGC GG TGCCCAAGGAGGCCGAGCTGGCTCCAAGGCT
GCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAAT
CCTTGCTCTGCGACGGACTATTCCCTGGCTGCAGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTT
ACTGACTATGTTTCATGGGGATGCCTCGCAGAAAGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTT
GCTGGGCTTTGCTATTTCAACTATCACGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCT
TTTTGACTTCCTACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACAATAA
GGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAACT
TTGAGGAAAAGGTTTGAGAGGAATTATATTTAAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTT
GCCTCCCAGCTTCTTATAAGACTCACAGTATAACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATC
TCTTAAAGAGAATC

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FIGURE 104

MAVLRRRLSALYGAQGGRALLRTPVIRPAHISAFIQDRPIPEWCGVQHLHLSPSHHPGSKAASLHWTSEKVVSVL
LLGLLPAAYLNPCSAMDYSLAATLTLPQHWGLRQVVTMFMGMPRRKLPRQGFWHFQL

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FIGURE 105

AGTGTGGTCAGGCGGCTCGGACTGAGCAGGACTTTCCCTTATCCCAGTTGATTGTGCAGAATACACTGCCTATCGC
TTGTCTTCTATTACCAATGGCTTCTTCTGATATCCAGGTGAAAGAACTGGAGAAGCGTGCCTCAGGCCAGGCTTT
TGAGCTGATTCTCAGCCCTCGGTCAAAAGAATCTGTTCCAGAATTCCCCCTTTCCCTCCAAAGAAGAAGGATCT
TTCCTTGGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAAGAAAGACGCAAGTCCCATGAAGCTGAGGTCTTGAA
GCAGCTGGCTGAGAAACGAGAGCACGAGAAAGAAGTGCTTCAGAAGGCAATAGAAGAGAACAACAACTTCAGTAA
AATGGCAGAAGAGAAACTGACCCACAAAATGGAAGCTAATAAAGAGAACCGAGAGGCACAAATGGCTGCCAACT
GGAACGTTTGCAGAGAGAAGGATAAGCACATTGAAGAAGTGCGGAAGAACAAAGAATCCAAAGACCCTGCTGACGA
GACTGAAGCTGACTTAATTTGTCTGAGAACTGACTTTCTCCCCATCCCCCTTCCTAAATATCCAAAGACTGTACTG
GCCAGTGTCATTTTATTTTTTCCCTCCTGACAAATATTTTAGAAGCTAATGTAGGACTGTATAGGTAGATCCAGA
TCCAGACTGTAAGATGTTGTTTTAGGGGCTAAAGGGGAGAACTGAAAGTGTTTACTCTTTTTCTAAAGTGTTG
GTCTTTCTAATGTAGCTATTTTTCTTGTGTCATCTTTCTACTTCAGTACACTTGGTGTACTGGGTTAATGGCTA
GTACTGTATTGGCTCTGTGAAAACATATTTGTGAAAAGAGTATGTAGTGGCTTCTTTTGAAGTGTAGATGCTGA
ATATCTGTTCACTTTTCAATCCCAATTCTGTCCCAATCTTACCAGATGCTACTGGACTTGAATGGTTAATAAAAC
TGCACAGTGTCTGTTGGTGGCAGTGACTTCTTTTGAGTTAGGTTAATAAATCAAGCCATAGAGCCCTCCTGGTTG
ATACTTGTTCCAGATGGGGCCTTTGGGGCTGGTAGAAATACCCAACGCACAAATGACCGCACGTTCTCTGCCCCG
TTTCTTGCCCCAGTGTGGTTTGCAATTGTCTCCTTCCACAATGACTGCTTTGTTTGGATGCCTCAGCCCAGGTCAG
CTGTTACTTTCTTTTCAGATGTTTATTTGCAAACAACCATTTTTTGTCTGTGTCCCTTTTAAAGGCAGATTAA
AGCACAAGCGTGTCTTAGAGAACAGTTGAGAGAGAATCTCAAGATTCTACTTGGTGGTTTGCTTGCTCTACGTT
ACAGGTGGGGCATGTCCTCATCCTTTCCTGCCATAAAAGCTATGACACGAGAATCAGAATATTAATAAACTTTA
TGTA CTGCTGT

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FIGURE 106

MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSLEEIQKKLEAAEERRKSHEAEVLKQLAEK
REHEKEVLQKAIEENNNFSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHIEEVRKNKESKDPADETAD

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FIGURE 107

GTGCAACGGCCGTTAGAGGAGCTGAGGGAGGGAACCAACCGCTCACCGCAGACGTAGTGGCTGCAGTCAGTCTTCC
CGAGTGAGGGATTTCGCCGCCCGCTTTTCAGGCCCCGTTTGGCTTAAATAACTGTGATTGATGGCCATGCAGGAGAA
ATATCCAACCTGAGGGGATCTCTCACGTCACTTCACCGAGTTCCGATGTGATTTCAGAAGGGCAGTTCCCTGGGGAC
TGAATGGCAGACCCCACTTATCTCGGAGCCCTTTTCGGAGCCGCTTCAGCCGCTGTTCAAGTGTAGCCGACAGTGG
GGACACAGCCATTGGTACATCATGCTCAGATATTGCGGAGGATTTTTCAGCTCAAGTGGCAGTCCTCCTTTCCA
GCCCATCAAAAGCCACGTAACCATTCACAGCCCCATGTGATGCCTTCTACTTTAGGGACCTCTCCTGCCAAGCC
AAATTTCTACACCTGTTGGACCCCTCTTCTCTAAACTCCCTTTGTCAGGGTTGGCTGAAAGTGTGGGAATGACAAG
AAATGGAGACCTCGGTGCAATGAAACATTCTCCAGGCCTATCTAGAGATCTCATGTATTTCTCTGGTGCTACTGG
AGAAAATGGAATTGAGCAGTCCTGGTTTCCAGCAGTGGGCCATGAAAGACAAGAAGAGGGCGAGGAAGTTTGATAT
TCCTAGCATGGAATCTACCCTCAATCAGTCGGCAATGATGGAGACACTTTATTTCAGATCCTCACCACCGAGTCCG
CTTCCACAACCCAAGAACCAGCACAAAGTAAGGAGTTGTACAGAGTGTGCCTGAGGCCAAGAAGGCACCGGGCAG
CGGGGCAGTGTGTTGAGCGGAATGGACCACATTCTAATAGCAGTGGGGTCCCTCCCTTTGGGACTCCAGCCTGCTCC
CGGGCACTCCAGCCAGCCTCTGCCCTCTCAGGTGTGGCAGCCGAGTCCTGACACTTGGCATCCCCGAGAGCAATC
TTGTGAACCTCAGCACTTGTTCGGCAGCAGCTGGAATTGATTTCGTTTACAGATGGAGCAAATGCAGCTTCAGAATGG
AGCCATCTGCCACCATCCTGCTGCTTTTGGTCCCTTCACTGCCCATCTTAGAGCCAGCACAGTGGATCAGCATCTT
GAACAGTAATGAACACCTTCTGAAGGAAAAAGAGCTTCTCATTGACAAGCAGAGGAAACACATCTCTCAGCTGGA
GCAGAAAGTGCAGAGAGCGAACTGCAAGTCCACAGTGCCTCTTGGGCCGCCCTGCCCTTTTGGTGATGTCTG
CTTGCTGAGGCTACAGGAATTGCAGCGAGAAAACACTTTCTTACGTGCACAGTTTGCACAGAAGACAGAAGCCTT
GAGCAGAGAAAAGATTGACCTTGAAGGAAACTCTCTGCTTCTGAAGTTGAAGTCCAGCTCATCAGAGAGTCGCT
CAAAGTGGCGTTGCAGAAGCATTCTGAGGAAGTGAAGAAAACAGGAAGAAAGGGTCAAAGGTTCGTGATAAACATAT
CAATAATTTGAAAAAGAAATGCCAGAAGGAATCAGAGCAGAACCAGGAGAAAGCAGCAGCGTATTGAGACCTTGGA
GCGCTACCTGGCTGACCTGCCACACTGGAAGACCATCAGAAGCAGAGCCAGCAGCTTAAGGATTCTGAGTTGAA
GAGCACAGAGCTGCAGGAGAAAGTGACTGAGCTGGAGAGTTTGTGAGGAGAGCCAGGCAATCTGCAGAGAGAA
GGAGATTCAACTGGAAAGCCTGAGGCAGAGAGAAAGCAGAATTCTCCTCCGCTGGACATAGCCTGCAAGATAAACA
GTCTGTGGAGGAGACCAGTGGAGAAGGTCCAGAAGTGGAATGGAGTCTTGGCAGAAGCGATACGATTCGCTCCA
AAAGATTGTGGAGAAGCAGCAGCAGAAGATGGATCAGTTGCGCTCACAAGTACAGAGCCTAGAGCAGGAAGTGGC
TCAAGAAGAAGGAACAAGCCAGGCCCTGAGAGAGGAGGCCAGCGAAGGGATTACGCCCTGCAGCAGCTGCGCAC
AGCCGTGAAGGAGCTTTTCAGTGCAAAACCAGGACTTGATTGAGAAGAATCTGACACTCCAGGAACACCTGCGCCA
GGCCCAACCAGGGTCTCCACCTTCACCAGACACGGCCCAGCTGGCACTTGAGCTGCACCAGGAGTTGGCCAGTTG
CCTTCAAGATCTGCAGGCTGTCTGTAGCATTGTGACCCAGAGGGCCCAGGGCCATGACCCCAATCTCTCCCTGCT
CCTGGGCATTCACTCACAGCACCCAGAGACTCAGTAGATTTCAGAAGCCAGATGTGATCAAGAGGAAACTAGA
AGAGGTTCAACAGCTGCGTCGTGACATTGAGGACTTAAGGACCACCATGTCAGACAGATATGCCAGGACATGGG
AGAAAACCTGTGTACACAGTGGAGGAATTCTGGGGGATTCCCCAGGGAGGAGCTGGGCTGCTGAGAGCCTAGTCC
AGCAGGTTTCTGCCCTGACATTCTTGTCTGCTATTCCAGAGAGGTCTCAGAGGGGAGGGGAGAGCCTGCATC
TGGGGGCCAAGGGCTGATTAGGGAACGTGTCTTACCCACACTGGCATGTTGGATTACGTTTGTCTCTGTTAATTC
ACTCTGACGGTGAGTTACTAATTAACCTTTTGGCAGGTACAACAGATAAGTCTCACAACTGTTCCCAGCCCTA
GGCTGACATGAGAGACGAACAGGCTGTCCACCTTCTTCTCCATCCAATGGGATGGATCCATGTTTATTCCCCT
TCACACCTTGGTCTGCTGATTAGAGAGCTCATCAGAGGGGCCCTGGAAAGGCTGAGCAAGTACCAGTGACAATGG
CCATTTAAGAATTCTCAGGCCCCATGTGCCAGCCTTCTTGGGAACCTGAGCTGGCTTTCTGGGTTTTCTCATGCCT
GGTCTTACTGCTTCTTCTCAGGGCTCTTGTCTCCCAGAAGCCTCAGGGTAATGTGTTGGTTAGCACGTAACCTA
CTAGGATTGGGGCCCTAGGGATTATAGCCAGGACTCTAATCTGCCTACCATGCCATTTAACAAGAGATCCCCTC
TCCAGCTGCCTTGTGTCCCTAGGGTCTTGGCCATGTGTTTAGTGTGCTAAACTTTCTCCTTTGTTCTCAGGCCTT
CCAGGTAGTCCCCTTCTTGGACTTAAGAGTGCAAACTCTTCTGTGGTTCTAGCCTTGGGCAGAATTATATCCC
AGAGACCACAGAGCAACTGTCAAGCTGCTTACCCCCCTACCCAGGGCTACAGCCTGTGCCAGCCCTCTAATTTG
TGCTCTCTTGTGTTGGGGGTGGTGGGGGTATTCCCTTTCCCTTTCTGCTCTGGCCTCCTTGAAAGTTTCAGAGT
ACCCAGTACAAGTCAGCCACCATGCTGACGGGTATTTTTCTCATAAAGTTTATAACCAGTTATTTATATGAATC
TTTGTATGTCCATTTGTTTGTATTGCGTATTTTGATTATAAAATAAAGTATCTTAACAG

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FIGURE 108

MAMQEKYPTEGISHVTSPSSDVIQKGSSLGTEWQTPVISEPFRSRFSRCSSVADSGDTAIGTSCSDIAEDFCSSS
GSPFFQPIKSHVTIPTAHVMPSTLGTSPAKPNSTPVGPSSSKLPPLSGLAESVGMTRNGDLGAMKHSPGLSRDLMY
FSGATGENGIEQSWFFPAVGHERQEEARKFDIPSMESTLNQSAMMETLYSDPHHRVRFHNPRTSTSKELYRVLPEA
KKAPGSGAVFERNGPHSNSSGVLPLGLQPAPGHSSQPLPSQVWQFSPDTWHPREQSCELSTCRQOLELIRLQMEQ
MQLONGAICHHPAAFGPSLPILEPAQWISILNSNEHLLKEKELLIDKQRKHISQLEQKVRESELQVHSALLGRPA
PFGDVCLLRLQELQRENTFLRAQFAQKTEALSREKIDLEKKLSASEVEVQLIRESLKVALQKHSEEVKKQEERVK
GRDKHINNLLKKKCQKESEQNREKQORIETLERYLADLPTLEDHQKQSQQKDSSELKSTELQEKVTELESLLLEETQ
AICREKEIQLESRLQREAEFSSAGHSLQDKQSVEETSGEGPEVEMESWQKRYDSLQKIVEKQQQKMDQLRSQVQS
LEQEVAQEEGTSQALREEAQRRDSALQQLRTAVKELSVQNQDLIEKNLTLQEHRLRAQPGSPSPDTAQLALELH
QELASCLQDLQAVCSIQTQRAQGHDPNLSLLLGIHSQHPETQLDLQKPDVIKRLKEEVQQLRRDIEDLRTTMSDR
YAQDMGENCVTQ

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FIGURE 109

GTAGCAGCTTCTTCTCCGAACCAACCCTTTGCCTTCGGACTTCTCCGGGGCCAGCAGCCGCCGACCAGGGGGCCC
GGGGCCACGGGCTCAGCCGACGACCATGGGCTCCGTGTCCAACCAGCAGTTTGCAGGTGGCTGCGCCAAGGCGGC
AGAAGAGGCGCCCGAGGAGGCGCCGGAGGACGCGGCCCGGGCGGCGGACGAGCCTCAGCTGCTGCACGGTGCGGG
CATCTGTAAGTGGTTCAACGTGCGCATGGGGTTTCGGCTTCCTGTCCATGACCGCCCGCGCCGGGGTTCGCGCTCGA
CCCCCAGTGGATGTCTTTGTGCACCAGAGTAAGCTGCACATGGAAGGGTTCCGGAGCTTGAAGGAGGGTGAGGC
AGTGGAGTTCACCTTTAAGAAGTCAGCCAAGGGTCTGGAATCCATCCGTGTACCGGACCTGGTGGAGTATTCTG
TATTGGGAGTGAGAGGCGGCCAAAAGGAAAGAGCATGCAGAAGCGCAGATCAAAAGGAGACAGGTGCTACAACCTG
TGGAGGTCTAGATCATCATGCCAAGGAATGCAAGCTGCCACCCAGCCCAAGAAGTGCCACTTCTGCCAGAGCAT
CAGCCATATGGTAGCCTCATGTCCGCTGAAGGCCCAGCAGGGCCCTAGTGCACAGGGAAAGCCAACCTACTTTTCG
AGAGGAAGAAGAAGAAATCCACAGCCCTACCCTGCTCCCGAGGCACAGAATTGAGCCACAATGGGTGGGGGCTA
TTCTTTTGTCTATCAGGAAGTTTGTAGGAGCAGGCAGAGTGGAGAAAGTGGGAATAGGGTGCATTGGGGCTAGTTG
GCACTGCCATGTATCTCAGGCTTGGGTTTACACCATCACCTTTTCTTCCCTCTAGGTGGGGGGAAAGGGTGAGTC
AAAGGAACTCCAACCATGCTCTGTCCAAATGCAAGTGAGGGTTCTGGGGGCAACCAGGAGGGGGGAATCACCTTA
CAACCTGCATACTTTGAGTCTCCATCCCAGAATTTCCAGCTTTTGAAAGTGGCCTGGATAGGGAAGTTGTTTTT
CTTTTAAAGAAGGATATATAATAATCCCATGCCAGAGTGAAATGATTAAGTATAAGACCAGATTCAATGGAGCCA
AGCCACTACATTCTGTGGAAGGAGATCTCTCAGGAGTAAGCATTGTTTTTTTTTTCACATCTTGTATCCTCATACC
CACTTTTGGGATAGGGTGTCTGGCAGCTGTCCCAAGCAATGGGTAATGATGATGGCAAAAGGGTGTGTTGGGGGAA
CAGCTGCAGACCTGCTGCTCTATGCTCACCCCCGCCCATTTCTGGGCCAATGTGATTTTATTTATTTGCTCCCTT
GGATACTGCACCTTGGGTCCCCTTTCTCCAGGATGCCAACTGCACTAGCTGTGTGCGAATGACGTATCTTGTGC
ATTTTAACTTTTTTCTTAAATATAAATATTTCTGGTTTTGTATTTTTGTATATTTTAAATCTAAGGCCCTCATTTT
CTGCACTGTGTTCTCAGGTACATGAGCAATCTCAGGGATAGCCAGCAGCAGCTCCAGGTCTGCGCAGCAGGAATT
ACTTTTTGTGTTTTTGGCACCGTGGAGAGCAACTATTTGGAGTGCACAGCCTATTGAACTACCTCATTTTTTGGC
AATAAGAGCTGGCTTTTCTGCCATAGTGTCTCTTGAAACCCCTCTGCCTTGAAAATGTTTTATGGGAGACTAG
GTTTTAACTGGGTGGCCCCATGACTTGATTGCCCTTCTACTGGAAGATTGGGAATTAGTCTAAACAGGAAATGGTG
GTACACAGAGGCTAGGAGAGGCTGGGCCCCGTGAAAAGGCCAGAGAGCAAGCCAAGATTAGGTGAGGGTTGTCTA
ATCCTATGGCACAGGACGTGCTTTACATCTCCAGATCTGTTCTTACCAGATTAGGTTAGGCCTACCATGTGCCA
CAGGGTGTGTGTGTGTTTGTAAACTAGAGTTGCTAAGGATAAGTTTAAAGACCAATACCCCTGTACTTAATCCT
GTGCTGTGAGGGATGGATATATGAAGTAAGGTGAGATCCTTAACCTTTCAAATTTTCGGGTTCAGGGAGACA
CACAAGCGAGGGTTTTGTGGTGCCTGGAGCCTGTGTCTGCTGCTGCTACAGTAGTGATTAATAGTGTATGGTAG
CTAAAGGAGAAAAAGGGGGTTTTCGTTTACACGCTGTGAGATCACCGCAAACCTACCTTACTGTGTTGAAACGGGA
CAATGCAATAGAACGCATTGGGTGGTGTGTGTCTGATCCTGGGTTCTTGTCTCCCCTAAATGCTGCCCCCAAG
TTACTGTATTTGTCTGGGCTTTGTAGGACTTCACTACGTTGATTGCTAGGTGGCCTAGTTTGTGTAAATATAATG
TATTGGTCTTTCTCCGTGTTCTTTGGGGGTTTTGTTTACAAACTTCTTTTTGTATTGAGAGAAAAATAGCCAAAG
CATCTTTGACAGAAGGTTCTGCACCAGGCAAAAAGATCTGAAACATTAGTTTGGGGGGCCCTCTTCTTAAAGTGG
GGATCTTGAACCATCCTTTCTTTTGTATTCCCCTTCCCCTATTACCTATTAGACCAGATCTTCTGTCTAAAAAC
TTGTCTTCTACCCTGCCCTCTTTTCTGTTTACCCCCAAAAGAAAACTTACACACCCACACACATACACATTTTCAT
GCTTGGAGTGTCTCCACAACCTCTTAAATGATGTATGCAAAAATACTGAAGCTAGGAAAACCCCTCCATCCCCTGTT
CCCAACCTCCTAAGTCAAGACCATTACCATTTCTTTCTTTCTTTTTTTTTTTTTTTTTTAAATGGAGTCTCACTGT
GTCACCCAGGCAGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGTTACAGAGCAAGACTCTGT
CTCAAAACAAAACAAAACAAAACAAAACACACTACTGTATTTTGGATGGATCAAACCTCCTTAATTTTAATTTCT
AATCCTAAAGTAAAGAGATGCAATTGGGGGCCTTCCATGTAGAAAAGTGGGGTCAGGAGGCCAAGAAAGGGAATAT
GAATGTATATCCAAGTCACTCAGGAACCTTTATGCAGGTGCTAGAAAACCTTATGTCAAAGTGGCCACAAGATTGT
TTAATAGGAGACGAACGAATGTAACCTCATGTTTACTGCTAAAAACCAAAGCTTTGTGTAAATCTTGAATTTAT
GGGGCGGGAGGGTAGGAAAGCCTGTACCTGTCTGTTTTTTTCTGATCCTTTTCCCTCATTCCTGAAGTGCAGGA
GACTGAGCCCCCTTTGGGCTTTGGTGACCCCATCACTGGGGTGTGTTTATTGATGGTTGATTTTGTGTACTGGG
TACTTCTTTCCCATTCTTCTAATCATTTTTTAAACAAGCTGACTCTTCCCTTCCCTTCTCCTTTCCCTGGGAAA
ATACAATGAATAAATAAAGACTTATTGGTACGC

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FIGURE 110

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCGACCGACCAAAGCCGCGCGCCGCTGCATCCCGCGTCCAGC
ACCTACGTCCCGCTGCCGTGCGCGCCGCCACCAATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAG
CAAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCA
AGCCTAAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGG
AGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCA
AGTGAAGTGTGTGCATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAAATACTATTTTTTATCAAGT
TTTATAAAAATGCAGAATTTTGTTTTACTTTTTTTTTTTTTTTTAAAAGCTATGTTGTTAGCACACAGAACTTC
ATTGTTGTTTTTGGGGGAAGGGGCATATGTCATAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGAAAACAC
CTTCCCTTCTAGTTTTGAGAGACTTCCTCTTGGCTCCCAGGAGGAGGGATTCCCTGACTTTGACACACATGGCC
ACCTTGGCACAAAAGCCTTGTTGGTATAGAAAAACAAATTTGTTTTTATGTCCTCTTCTCCCTTTCCATCTTTCAG
CATAGACTTAACCTCCCTTAAGCCCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGC
AATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGCAGTGGTTCCATTTCTAGATTGTGGAT
CTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAAGTCAGGGTCGGCTTGTGAAAAGTTGTTAAACAACA
TGCTAAATGTGAAATGTCAACCCTCACTCTAACTTTCCCTGTTTCAGAGCATCAGATGAAGACTTCATTGGGTTT
TATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTAAACGATTGT
CTGCCCATGTCCTGCCTGAAATACCATGATTGTTTATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

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FIGURE 111

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPAPPKPEPKPKKAPAKKGEKVPKGKKGKADAGKEGNNPAENGDA
KTDQAQKAEGAGDAK

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FIGURE 112A

GAAAGCGGAGAGTCACAGCGGGGCCAGGCCCTGGGGAGCGGAGCCTCCACCGCCCCCTCATTCCCAGGCAAGGG
CTTGGGGGGAATGAGCCGGGAGAGCCGGGTCCCCGAGCCTACAGAGCCGGGAGCAGCTGAGCCGCCGGCGCCTCGG
CCGCCGCCGCCCTCCTCCTCCTCCGCCGCCGCCAGCCCGGAGCCTGAGCCGGCGGGGCGGGGGGAGAGGAGC
GAGCGCAGCGCAGCAGCGGAGCCCCGCGAGGCCCGCCCGGGCGGGTGGGGAGGGCAGCCCGGGGGAAGTGGGCCCC
GGGGCGGGGTGGGAGGGGGGAGAAAXX
XXTCGAGGCGGCGGCTGCGGCAGCGGC
CGAGCGCGGTGGAATGAAGGCAGCCGCCGGGCAGGAAAGCGAGGGCCCCGCCGTGGGGCCGCCGATCCGCTGG
GAAAGGAGCTGCTGGACGGGGCCGAGAGCAATGGGGGTGGCGGCGGCGGCGGAGCCGGCAGCGGCGGGCCCCG
GCGCGGAGCCGGACCTGAAGAACTCGAACGGGAACGCGGGCCCTAGGCCCGCCCTGAACAATAACCTCACGGAGC
CGCCCGGCGGCGGCGGTGGCGGCAGCAGCGATGGGGTGGGGGCGCCTCCTCACTCAGCCGCGGCCGCTTGCCGC
CCCCAGCCTACGGCTTCGGGCAACCCTACGGCCGAGCCCGTCTGCCGTGCGCGCCGCCGCGGCCGCGCTTCTCC
ACCAACAACATGGCGGACAACAAAGCCCTGGCCTGGCAGCGCTGCAGAGCGGCGGCGGGGGCCTGGAGCCCT
ACGCGGGGCCCCAGCAGAACTCTACGACCACGGCTTCCCCAACACCAGTACAACCTACTACCCCAACCGCA
GCGCTACCCCCCGCCCCCGCCCTACGCGCTGAGCTCCCCGAGAGGTGGCACTCCGGGCTCCGGCGCGGGCGG
CGGCTGCCGGCTCCAAGCGCCTCCTCCTCCAGCGCCTCCGCCTCCTCGTCTCTTCGTCTCTCGCTCAGCAGC
GCTTCGGGGCCATGGGGGAGGCGGCCCTCCGCGGCCGGCGGGGGAAGTCCCCAGCCACCGCCACCCCCACCC
TCAACCAACTGCTCACGTGCGCCAGCTCGGCCGGGGCTACCAGGGCTACCCCGGGGCGACTACAGTGGCGGGC
CCCAGGACGGGGGCGCGGCAAGGGCCCGGCGGACATGGCCTCGCAGTGTGGGGGGCTGCGGCGGCGGCAGCTG
CGGCGGCGGCCGCTCGGGAGGGGCCAACAAAGGAGCCACCACGCGCCATGAGCCCCGGGAGCAGCGGCGGGCG
GGGGGCGAGCCGCTCGCCCGGACCCCTCAGCCATCCAGTCCAATGGATCAGATGGGCAAGATGAGACCTCAGCCAT
ATGGCGGGACTAACCCATACTCGCAGCAACAGGGACCTCCGTCAGGACCGCAGCAAGGACATGGGTACCCAGGGC
AGCCATACGGGTCCCAGACCCCGCAGCGGTACCCGATGACCATGACAGGGCCGGGCGCAGAGTGCCATGGGCGGCC
TCTCTTATACACAGCAGATTCTCCTTATGGACAACAAGGCCCCAGCGGGTATGGTCAACAGGGCCAGACTCCAT
ATTACAACCAGCAAAGTCTCACCCTCAGCAGCAGCAGCCACCCTACTCCCAGCAACCACCGTCCCAGACCCCTC
ATGCCAACCTTCGTATCAGCAGCAGCCACAGTCTCAACCAACACAGCTCCAGTCTCTCAGCCTCCATACTCCC
AGCAGCCATCCCAGCCTCCACATCAGCAGTCCCCGGCTCCATACCCCTCCCAGCAGTCGACGACACAGCAGCACC
CCCAGAGCCAGCCCCCTACTCACAGCCACAGGCTCAGTCTCCTTACCAGCAGCAGCAACCTCAGCAGCCAGCAC
CCTCGACGCTCTCCCAGCAGGCTGCGTATCCTCAGCCCCAGTCTCAGCAGTCCCAGCAAACTGCCTATTCCCAGC
AGCGCTTCCCTCCACCGCAGGAGCTATCTCAAGATTCAATTTGGGTCTCAGGCATCCTCAGCCCCCTCAATGACCT
CCAGTAAGGGAGGGCAAGAAGATATGAACCTGAGCCTTCAGTCAAGACCCTCCAGCTTGCTGATCTATCTGGTT
CAATAGATGACCTCCCCATGGGGACAGAAGGAGCTCTGAGTCTGGAGTGAGCACATCAGGGATTTCAGCAGCC
AAGGAGAGCAGAGTAATCCAGCTCAGTCTCCTTTCTCTCCTCATACTCCCCTCACCTGCCTGGCATCCGAGGCC
CTTCCCCGTCCCTGTTGGCTCTCCCGCAGTGTGCTCAGTCTCGCTCAGGACCACTCTCGCCTGCTGCAGTGC
CAGGCAACCAGATGCCACCTCGGCCACCCAGTGGCCAGTCGGACAGCATCATGCATCCTTCCATGAACCAATCAA
GCATTGCCCCAAGATCGAGTTATATGCAGAGGAACCCCAAGATGCCCCAGTACAGTTCCCCCAGCCCGGCTCAG
CCTTATCTCCGCTCAGCCTTCCGGAGGACAGATACACACAGGCATGGGCTCCTACCAGCAGAACTCCATGGGGA
GCTATGGTCCCCAGGGGGGTGAGTATGGGCCACAAGGTGGCTACCCCAAGGCAGCCAACTATAATGCCTTGCCCA
ATGCCAACTACCCAGTGCAGGCATGGCTGGAGGCATAAACCCATGGGTGCCGGAGGTCAAATGCATGGACAGC
CTGGCATCCCACCTTATGGCACACTCCCTCCAGGGAGGATGAGTACGCCTCCATGGGCAACCGGCCCTTATGGCC
CTAACATGGCCAATATGCCACCTCAGGTTGGGTGAGGATGTGTCCCCCACCAGGGGGCATGAACCGGAAAACCC
AAGAACTGCTGTGCGCATGCATGTTGCTGCCAACTCTATCCAAAACAGGCCGCCAGGCTACCCCAATATGAATC
AAGGGGGCATGATGGGAACTGGACCTCCTTATGGACAAGGGATTAATAGTATGGCTGGCATGATCAACCCTCAGG
GACCCCATATTCCATGGGTGGAACCATGGCCAACAATTCTGCAGGGATGGCAGCCAGCCAGAGATGATGGGCC
TTGGGGATGTAAAGTTAACTCCAGCCACCAAAATGAACAACAAGGCAGATGGGACACCAAGACAGAATCCAAAT
CCAAGAAATCCAGTTCTTCTACTACAACCAATGAGAAGATACCAAGTTGTATGAGCTGGGTGGTGAGCCTGAGA
GGAAGATGTGGGTGGACCGTTATCTGGCCTTCACTGAGGAGAAGGCCATGGGCATGACAAATCTGCCTGCTGTGG
GTAGGAAACCTCTGGACCTCTATCGCCTCTATGTGTCTGTGAAGGAGATTGGTGGATTGACTCAGGTCAACAAGA
ACAAAAATGGCGGGAACTTGCAACCAACCTCAATGTGGGCACATCAAGCAGTGTGCCAGCTCCTTGAAAAAGC

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FIGURE 112C

GTGTGTGTGTGCGTGTGTGGAGAACTTAGAAACTGACTGTTGCCCTTTATTTATGCAAAACCACCTCAGAATCCA
GTTTACCCTGTGCTGTCCAGCTTCTCCCTTGGGAAAAAGTCTCTCCTGTTTCTCTCTCCTCCTTCCACCTCCCT
CCCTCCATCACCTCACGCCTTTCTGTTCCTTGTCTCACCTTACTCCCTCAGGACCCTACCCACCTCTTTGA
AAAGACAAAGCTCTGCCTACATAGAAGACTTTTTTTATTTTAACCAAAGTTACTGTTGTTTACAGTGAGTTTGGG
GAAAAAAATAAAATAAAAATGGCTTCCCAGTCCTTGCATCAACGGGATGCCACATTCATAACTGTTTTTAAT
GGTAAAAAAAAAAAAA

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FIGURE 113

CAACAATGTGGACCTGATTCCTGGCCACACCCCCCTTCAGCCGCCCTGGAGAAAGTTGTATAGCACTATGGTGCGCTT
CCTCAGTGACCGAAAGAACCCGGTGTGCCGGGAGATGGCTGTGGTACTGCTGGCCAACCTGGCTCAGGGGGACAG
CCTGGCAGCTCGTGCCATTGCAGTGCAGAAGGGCAGTATCGGCAACCTCCTGGGCTTCTCTAGAGGACAGCCTTGC
CGCCACACAGTTCAGCAGAGCCAGGCCAGCCTCCTCCACATGCAGAACCCACCCCTTTGAGCCAACTAGTGTGGA
CATGATGCGGGCGGGCTGCCCGCGCGTGTCTTGCTTGGCCAAGGTGGACGAGAACCCTCAGAGTTTACTCTGTGA
CGAATCACGGCTGTTGGACATCTCGGTATCACCGTTGATGAACCTATTGGTTTCACAAGTCATTTGTGATGTACT
GTTTTTGATTGGCCAGTCATGACAGCCGTGGGACACCTCCCCCCCCCGTGTGTGTGTGCGTGTGTGGAGAACTTA
GAAACTGACTGTTGCCCTTTATTTATGCAAACCACCTCAGAATCCAGTTTACCCTGTGCTGTCCAGCTTCTCCC
TTGGGAAAAAAGTCTCTCCTGTTTCTCTCTCCTCCTTCCACCTCCCCTCCCTCCATCACCTCACGCCTTCTGTTC
CTTGTCCTCACCTTACTCCCCCTCAGGACCCCTACCCACCCCTCTTTGAAAAGACAAAGCTCTGCCTACATAGAAGA
CTTTTTTTATTTTAAACAAAGTTACTGTTGTTTACAGTGAGTTTGGGGAAAAAAAATAAAATAAAAATGGCTTTC
CCAGTCCTTGCAACAACGGGATGCCACATTTATAACTGTTTTTAATGGTAAAAAAAAAAAAAAAAAATACAAAA
AAAAATCTGAAGGACAAAAAAGGTGACTGCTGAACGTGTGTGTGGTTTATTGTTGTACATTACAACTCTGCAGG
AGCCAAGAAGTTTCGCAGTTGTGAACAGACCCTGTTACCTGGAGAGGCCTGTGCAGTAGAGTGTAGACCCTTTCAT
GTACTGTACTGTACACCTGATACTGTAAACATACTGTAATAATAATGCTCACATGGAACAGAAAACGCTGGGT
CAGCAGCAAGCTGTAGTTTTTAAAAATGTTTTTAGTTAAACGTTGAGGAGAAAAAAAAGGCCTTTTCCCCCA
AAGTATCTGTGTGAACCTACAACACCCTGACCTCTTTCTCTCCTCCTTGATTGTATGAATAACCTGAGATCAC
CTCTTAGAAGTGGTTTTTAACCTTTAGCTGCAGCGGCTACGCTGCCACGTGTGTATATATATGACGTTGTACATTG
CACATACCCTTGGATCCCCACAGTTTGGTCCTCCTCCCAGCTACCCCTTTATAGTATGACGAGTTAAACAAGTTGG
TGACCTGCACAAAGCGAGACACAGCTATTTAATCTCTTGCCAGATATCGCCCTCCTTGGTGCATGCTGTACAGG
TCTCTGTAAAAAGTCCTTGCTGTCTCAGCAGCCAATCAACTTATAGTTTATTTTTTCTGGGTTTTTGTTTTGT
TTGTTTTCTTCTAATCGAGGTGTGAAAAAGTTCTAGGTTTCAAGTTCTGATGAAGAAACACAATTGAGAT
TTTTTCAGTGATAAAATCTGCATATTTGTATTTCAACAATGTAGCTAAAACCTGATGTAAATTCCTCCTTTTTT
CCTTTTTTGGCTTAATGAATATCATTTATTTCAGTATGAAATCTTTATACTATATGTTCCACGTGTTAAGAATAAA
TGTACATTAAATCTTGGT

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FIGURE 115

MERASLIQKAKLAEQAERYEDMAAFMKGAVEKGEELSCEERNLLSVAYKNVVGQRAAWRVLSSIEQKSNEEGSE
EKGPEVREYREKVETELQGVCDTVLGLLDSHLIKEAGDAESRVFYLMKMGDYYRYLAEVATGDDKKRIIDSARSA
YQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPEEAISLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRD
NLTLWTADNAGEEGGEAPQEPQS

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FIGURE 116

CCGGAAGTCGAGTTAGTCTAGTTAGTATCGGCCTGTTATCTCCTTTTTCGCGACACGGTCTCAGCTGTTCCGCCCT
GAGGCGAGTGACGCTGGCCGCCAACGAGGTATACGTACTGGGACCCTCGCCCTCAGTCTCGTCTCCGGCGCGGCT
ACCTGCCCCGTTTTCCCTGTGAGTTGACCTGCTCCGGGCCGCGGGCCGCCAATGGCAGGGGCCGCTCCGACCACG
GCCTTCGGGCAGGCGGTGACCGGCCCGCCGGGCTCAGGGAAGACCACGTACTGCCTGGGCATGAGTGAGTTCCTG
CGCGCGCTGGGCCGGCGCGTGGCGGTGGTGAACCTGGACCCGGCCAACGAGGGGCTGCCGTACGAGTGTGCCGTG
GACGTGGGCGAGCTGGTGGGGCTGGGCGACGTGATGGACGCGCTGCGCCTGGGGCCCAACGGCGGCCTGCTCTAC
TGCATGGAGTACCTGGAAGCCAACCTGGACTGGCTGCGTGCCAAGCTCGACCCCTCCGCGGCCACTACTTCCTC
TTCGACTGCCCAGGCCAGGTGGAGCTCTGCACGCATCACGGCGCCTTGCGCAGCATCTTCTCCCAAATGGCGCAG
TGGGACCTCAGGCTGACTGCCGTCCACCTCGTGGATTCTCACTACTGCACAGACCCTGCCAAGTTCATTTTCAGTA
CTGTGTACCTCCCTGGCCACCATGCTGCACGTGGAAGTGCACCAACCTCCTTTCCAAGATGGACCTCATT
GAGCATTATGGGAAGCTGGCCTTCAACCTGGACTACTACACAGAGGTTCTGGACCTCTCCTACCTGCTTGACCAC
CTGGCTTCTGACCTTTCTTCCGCCACTACCGCCAGCTCAATGAGAAGCTAGTGCAGCTCATCGAAGACTATAGC
CTTGCTCCTTTATCCCTCTCAACATCCAGGACAAGGAGAGCATCCAGCGAGTCCCTGCAGGCTGTGGATAAAGCC
AATGGATACTGTTTCAGAGCCCAAGAGCAGCGAAGCTTGGAAGCCATGATGTCTGCCGCAATGGGAGCCGACTTC
CATTTCTCTTCCACACTGGGCATCCAGGAGAAGTACCTGGCACCCCTCGAACCAGTCAGTGGAGCAGGAAGCCATG
CAGCTGTAGCAACAAGGTGGACCTGGAGAGCAGGATGCATAATCCAGCACTGGGGAAAGTGGAGGCTCCTGATG
CAGGCTGCAGACCCAAGAGCAAGTCCTCCAGCCAGAGCTGGCGGGCTGGCAAGGGGATATTCAGCTCTGCAAAG
GACTTCTGGCCAAAAAGCCAGACATGGTGCCAAGCAGAACACCCCCCATACTGTCAGTGGTGTCCGTGAGCTCTG
GGCCCTGCCACCAGAAAGTCGAGCACTGGTCCTAGTCAGGCTGTGATGAAATGTGCTACAATACAAGAGTTTATT
TTCT

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FIGURE 117

MAGAAPTAFGQAVTGPPGSGKTTYCLGMSEFLRALGRRVAVVNLDPANEGLPYECADVGVGLGDVMDALRL
GPNGGLLYCMEYLEANLDWLRAKLDPLRGHYFLFDCPGQVELCTHHGALRSIFSQMAQWDLRLTAVHLVDSHYCT
DPAKFISVLCTSLATMLHVELPHINLLSKMDLIEHYGKLAFNLDYYTEVLDLSYLLDHLASDPFFRHYRQLNEKL
VQLIEDYSLVSFIPLNIQDKESIQRVLQAVDKANGYCFRAQEQRSLEAMMSAAMGADFHFSSTLGIQEKYLAPSN
QSVEQEAMQL

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FIGURE 118

TAGAGTCGTTGGGCCCCGGCGCGACCCGCAGGAGCGTAGAGAGCGCGGGACTAGAGTGCAGAGCTCCGGGACGTGG
ATCGGAGCCGGCGCGATGGGCGGAGAGCAGGAGGAGGAGCGGTTTCGACGGCATGTTGCTGGCCATGGCTCAGCAG
CACGAGGGCGGCGTGCAGGAGCTTGTGAACACCTTCTTCAGCTTCCTTCGACGCAAAACAGACTTTTTCATTGGA
GGAGAAGAAGGGATGGCAGAGAAGCTTATCACACAGACTTTCAGCCACCACAATCAGCTGGCACAGAAGACCCGG
CGGGAGAAGAGAGCCCCGGCAGGAGGCCGAGCGGCGGGAGAAGGCGGAGCGGGCGGCCAGACTGGCCAAGGAAGCC
AAGTCAGAGACCTCAGGGCCCCAGATCAAGGAGCTAACTGATGAAGAGGCAGAGAGGCTGCAGCTAGAGATTGAC
CAGAAAAAGGATGCAGAGAATCATGAGGCCCAGCTCAAGAACGGCAGCCTTGACTCCCCAGGGAAGCAGGATACT
GAGGAAGATGAGGAGGAAGATGAGAAGGACAAAGGAAAACCTGAAGCCCAACCTAGGCAACGGGGCAGACCTGCCC
AATTACCGCTGGACCCAGACCCCTGTCGGGAGCTGGACCTGGCGGTCCCTTTCTGTGTGAACCTCCGGCTGAAAGGG
AAGGACATGGTGGTGGACATCCAGCGGCGGCACCTCCGGGTGGGGCTCAAGGGGCAGCCAGCGATCATTGATGGG
GAGCTCTACAATGAAGTGAAGGTGGAGGAGAGCTCGTGGCTCATTGAGGACGGCAAGGTGGTGAAGTGTGCATCTG
GAGAAGATCAATAAGATGGAGTGGTGGAGCCGCTTGGTGTCCAGTGACCCTGAGATCAACACCAAGAAGATTAAAC
CCTGAGAATTCCAAGCTGTCAGACCTGGACAGTGAGACTCGCAGCATGGTGGAAAAGATGATGTATGACCAGCGA
CAGAAGTCCATGGGGCTGCCAACTTCAGACGAACAGAAGAAACAGGAGATTCTGAAGAAGTTCATGGATCAACAT
CCGGAGATGGATTTTTCCAAGGCTAAATTCAACTAGCCCCCTGTTTTTCTCCCTGAACTCTTGGGGCTGAGCTG
CAACCACCCAACCTTTCTTTCCCACTCTTCTCTGGGACTTGTGGGCCTCAGGGCTTGGGGCAGGCATGGGACTGGC
CCAGGCACACAGGTCCCGGGGCATCAGGAGAAAGGCTGGGTCTTGGGACCTTGTCTCTCCCAAGTTGGCCTACTGT
TACACATTAAAACGATTTGCCAGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 119

MGGEQEEERFDGMLLAMAAQQHEGGVQELVNTFFSFLRRKTDFFIGGEEGMAEKLITQTFSHHNQLAQKTRREKRA
RQEAERREKAERAARLAKEAKSETSGPQIKELTDEEAERLQLEIDQKKDAENHEAQLKNGSLDSPGKQDTEEDDEE
EDEKDKGKLKPNLGNLADLPNYRWTQTLSELDLAVPFCVNFRLKGKDMVVDIQRRLRVGLKGQPAIIDGELYNE
VKVEESSWLIEDGKVVTVHLEKINKMEWWSRLVSSDPEINTKKINPENSCLSDLDSETRSMVEKMMYDQRQKSMG
LPTSDEQKKQEILKKFMDQHPMDFSKAKFN

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FIGURE 120

CCTGGTATGATTCCATCCTGAGCGGCTGTTCTCTTGAGCAGCGTTCAATTTATCTCCGTCTGCCTTCTGTCCCACC
TAAGTGTGTGCCGCCACCCAATAGAAGATTTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTATCTTT
TCGGTTGTGAACTAAAGGCTGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTT
TAAGAACGGTCAGTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACAAAG
GCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGCACAGCCAACAGTTTCCCTTGGGGGCTTTGAAA
TAACACCACCAGTGGTCTTAAGATTTAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTG
TGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAACTTGCTGTTGATGAAGATGATGATGATGATGATG
ATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCCTTCA
AAACACAGGAAAAAACTCCTAAAAACACCAAAAGGATCTAGTTCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAA
GTATAGAAAAAGGGGGTTCTCTTCCCAAAGTGGAAGCCGAGTTCATCAATTTTGTGAAGAATTGCTTCTGGATGA
CTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCCTTAAGAAAATAGTTTCAACAATTTGTTAA
AAATTTTCCATCATATTTTCAATTTCTGTAAACAGTTGATATCTGGCTGTCTTTTTATAATGCAGAGTGAGAACTTT
CCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCCATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTT
AAAGATGGAACCTACCCTTTGCTTGGTTTTAAATATGTATGGAATGTTATGATAGGACATAGTAGTAGCGGTGGT
CAGACATGGAAATTGTGGGAAGACAAAAATATGCCTGTGAAATAAACTCAATATTTAATAAAGTAAAAAAA
AAAAA

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FIGURE 121

MDMDMSPLRPQNYLFGCELKADKDDHFKVDNDENEHQLSLRTVSLGAGTKDELHIVEAEAMNYKGSP IKVTLATL
KMSAQPTVSLGGFEITPPVVLRFKCGSGP VHISGQHLVAVEEDA ESEDEEEEDVKLLSISGKRSAPGGGSKVPQK
KVKLAVDEDDDDDDDDDDDDDFDDEEAEEKVPVKKGQESFKTQEKTPKTPKGSSSVEDIKAKMQASIEKGGSLPKV
EAEF INFVNCFWMTDQEAIQDLWQWRKSP

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FIGURE 122

AGCTGCTGGCTGGGCTGCCTGTTGAGTCAGCCTTCTTCCCTCACGGCTCTTCTCCCGGTCCCTGAAACTCGGCTG
CCAGGGGAGCTGGAGCCACCTGCGAAGGTGTCTCCCTACTGGACCCCTACAGGAAGCTCCGTGTGCCCAGCTG
GGGCACAGCCCCAGCTGATGCCCCAGAGGGGCCACCCATCGCAAGAGGGGCTTTGGGCTCTGCCCTCCCTCCCCA
TGGCGCATGGGCCAAAGCCTGAGACTGAAGGACTGTTGGACCTCAGCTTCTTGACAGAGGAGGAGCAGGAGGCCA
TTGCTGGCGTCTCTCCAACGAGATGCCCCGCTGCGCCAGCTGGAGGAGGGGCGGGTCAGCAAGCTCCGGGCTCAG
TGGCAGACCCTGGGCAGCTGAAGATCCTGACAGGGGACTGGTTCCAGGAAGCACGCTCCCAGCGGCACCACAATG
CCCACTTCGGCTCTGACCTTGTCCGAGCGTCTATGCGCAGGAAGAAGAGCACCAGGGGAGACCAGGCTCCAGGCC
ACGACAGGGAGGCTGAGGCTGCTGTGAAAGAGAAGGAAGAGGGGCCAGAGCCCAGGCTCACCATTGATGAGGCC
CTCAGGAGAGGCTCAGGGAGACTGAGGCTTCAGATCCTGAGGAGGCGTCCCAGGCCCAGGAAGATCCTGGCCAAG
GAGACCAACAGGTCTGTGCCGAGGAGGCTGACCCGGAGCTGGAGCCCGCTCGGGGGGAGAGCAGGAGCCGCGGC
CCCAGCAAGCCCAGACCAAGGCCGCTCCCAGATCCTGGAGAATGGGGAGGAGGCCCCGGGGCCCCGACCCCTCTC
TCGACCGCATGCTCAGCAGCAGCTCCTCGGTGTCCAGCCTTAACCTCTCCACGCTGAGCGGCAGCCAGATGAGCC
TGTACGGCGACGCGGAGGCGGTGCAGGTCCGCGGCTCCGTGCACCTTCGCGCTGCACTACGAGCCGGGCGCCGCCG
AGCTGCGCGTGCACGTGATCCAGTGCCAGGGCCTGGCCGCCGCCGGCGCCGCTCGGACCCCTACGTCAAAA
GCTACCTCCTCCCGGATAAGCAGAGCAAGCGCAAGACGGCGGTGAAGAAACGGAATCTGAATCCGGTTTTCAACG
AGACTCTCCGGTACTCCGTCCCGCAGGCCGAGCTTCAGGGCCGCGTGTGAGCCTGTCTGTGTGGCACC GCGAAA
GCCTGGGTGCGAACATCTTTCTGGGCGAAGTTGAAGTGCCCCCTGGACACGTGGGACTGGGGCTCTGAGCCACCT
GGCTCCCCCTGCAGCCCCGGGTCCACCCCTCTCCCGACGACCTTCCGAGCCGCGGGTTACTCGCCCTGTCCCTCA
AGTACGTCCCCGCCGGCTCCGAGGGCGCAGGACTGCCCCGAGCGGGGAGCTGCACTTCTGGGTGAAGGAGGCTC
GGGACCTCCTGCCGCTGCGGGCAGGATCCCTGGACACTTACGTACAATGCTTCGTGCTGCCTGATGACAGCCAGG
CCAGCCGCCAGCGTACAAGGGTTGTGCGACGCAGCCTCAGCCCTGTGTTCAATCACACCATGGTGTACGATGGCT
TTGGGCCTGCTGACCTGCGCCAGGCTTGTGCCGAGCTCTCCCTCTGGGACCATGGGGCCCTGGCCAACCGCCAGC
TGGGGGGCACACGCCTCAGCCTGGGCACCGGCAGCAGCTATGGGCTGCAGGTGCCCTGGATGGATTCCACACCTG
AGGAGAAGCAGCTGTGGCAAGCCCTCCTGGAGCAGCCGTGCGAATGGGTGGATGGCCTTCTACCCCTCAGAACCA
ACCTGGCCCCCAGGACGTAGCCCCACCAAGCCTCTCTCTTGACCCCATCTCAGGGCCTGCCCTTGGCTAAAG
TCAATAAAGTCTATTCTAAGAGC

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FIGURE 123

MPQRGHPSQEGWLWALPSLPMAGPKPETEGLLDLSFLTEEEQEAIAGVLQRDARLRQLEEGRVSKLRASVADPGQ
LKILTGDWFQEARQRHHNAHFGSDLVRASMRRKKSTRGDQAPGHDREAEAAVKEKEEGPEPRITIDEAPQERLR
ETEASDPEEASQAQEDPGQGDQQVCAEEADPELEPASGGEQEPRPQQAQTKAASQILENGEEAPGPDPSLDRMLS
SSSSVSSLNSSTLSGSQMSLSGDAEAVQVRGSVHFALHYEPGAAELRVHVIQCQGLAAARRRRSDPYVKSyllPD
KQSKRKTAVKKRNLNPVFNETLRYSVPAELQGRVLSLSVWHRESLGRNIFLGEVEVPLDTWDWGSEPTWLPLQP
RVFPSPDDLPSRGLLALSLKYVPAGSEGAGLPPSGELHFWVKEARDLLPLRAGSLDTYVQCFVLPDDSQASRQRT
RVVRRSLSPVFNHTMVYDGFPGADLRQACAELSLWDHGALANRQLGGTRLSSLGTGSSYGLQVPWMDSTPEEKQLW
QALLEQPCEWVDGLLPLRTNLAPRT

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FIGURE 124

ATGCCGTTAGTAACGAGGAACATCGAGCCAAGGCACCTGTGCCGTCAGACGTTGCCTAGCGTTAGAAGCGAGCTG
GAATGCGTGACCAACATCACCCCTGGCAAATGTCATCCGACAGCTGGGCAGCCTGAGTAAATATGCAGAGGACATT
TTTGGAGAGCTCTTTACTCAGGCAAATACCTTTGCCTCTCGGGTAAGCTCCCTTGCTGAGAGGGTCGACCGACTA
CAGGTTAAAGTCACTCAGCTGGATCCCAAGGAAGAAGAAGTGTCACTGCAAGGAATCAACACCCGAAAAGCCTTC
AGAAGTTCCACCATTCAAGACCAGAAGCTTTTTGACAGAAACTCTCTCCAGTGCCTGTCTTAGAAACATACAAT
ACCTGTGATACTCCTCCCCCTCTCAACAATCTTACCCCTTACAGGGACGATGGAAAAGAGGCACTCAAATTCTAC
ACAGACCCCTTCATACTTCTTTGATCTTTGGAAGGAGAAGATGCTGCAGGACACCAAGGATATCATGAAAGAGAAG
AGAAAGCACAGGAAAGAAAAGAAAGATAATCCAAATCGAGGGAATGTAAACCCACGTAAAATCAAGACACGTAAG
GAAGAGTGGGAGAAAATGAAGATGGGGCAAGAATTTGTGGAGTCCAAAGAAAAGCTGGGGACTTCTGGGTATCCA
CCCACTTTGGTGTACCAGAATGGCAGCATTGGCTGTGTTGAAAACGTGGATGCAAGTAGCTATCCGCCACCACCA
CAGTCAGACTCTGCTTCTTCACCTTCTCCTTCTCCTCCGAGGACAACTGCCTCCTCCACCAGCAGAATTCAGT
TACCCAGTGGACAACCAAAGAGGATCTGGTTTGGCTGGACCCAAAAGATCCAGTGTGGTCAGCCCAAGCCATCCA
CCACCAGCTCCTCCTCTAGGCTCTCCACCAGGCCCTAAACCCGGGTTTGCTCCACCACCTGCCCCCTCCGCCACCT
CCGCCTCCAATGATAGGCATCCCACCTCCACCACCGCCTGTAGGATTTGGGTCTCCAGGGACGCCTCCACCACCC
TCACCCCATCTTTCCACCTCACCTGATTTTGCTGCCCCCTCCACCTCCTCCTCCACCACCAGCAGCTGACTAC
CCAACTCTGCCACCACCTCCCTTGTCCCAGCCAACAGGAGGAGCACCTCCTCCTCCCCCTCCTCCTCCTCCG
GGGCCCCCTCCTCCCCCTTTCACTGGTGCAGATGGCCAGCCTGCTATAACCACCACCGCTTTCTGATACCACCAAG
CCCAAGTCCTCCTTGCTGCGGTGAGCGATGCCCGTAGCGACCTGCTTTACGCCATCCGTCAAGGTTTTAGCTG
CGCAGGGTTGAGGAGCAGCGGGAACAAGAGAAGCGGGATGTTGTGGGCAATGACGTGGCCACCATCTTGTCTCGT
CGCATTGCTGTTGAGTACAGTGACTCAGAAGATGACTCCTCTGAATTTGATGAGGACGACTGGTCCGAT**TAA**

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FIGURE 125

MPLVTRNIEPRHLCRQTLPSVRSELECVTNITLANVIRQLGSLSKYAEDIFGELFTQANTFASRVSSLAERVDRL
QVKVTQLDPKEEEVSLQGINTRKAFRSSTIQDQKLFDRNSLPVPVLETYNTCDTPPPLNNLTPYRDDGKEALKFY
TDP SYFFDLWKEKMLQDTKDIMKEKRKHRKEKKDNPNRGVNPRIKTRKEEWEKMKMGQEFVESKEKLGTS GYP
PTLVYQNGSIGCVENV DASSYPPPPQSDSASSPSPSFSEDNLPPPPAEFSYPVDNQRGSGLAGPKRSSVVSHP
PPAPPLGSPPGPKPGFAPPPAPPPPPPPMIGIPPPPPPVGFGSPGTPPPSPPSFPPHPDFAAPPPPPPPAADY
PTLPPPLSQPTGGAPPPPPPPPPGPPPPFTGADGQPAIPPLSDTTKPKSSLPVSDARSDDL SAI RQGFQL
RRVEEQREQEKRDVVGNDVATILSRRIAVEYSDSEDD SFEDEDDWSD

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FIGURE 126

GCAGCACCCAGTTCTCCCCGCACGCCGGCACTCGCGGCTGCTGGAGCCCCGGCTGGCTCACCCCGGGGCCGGGC
AGAATTGGGCTCCAGGTCTCTGACCCCTCCCAAGGATCATGCCGCAGCCCCACTGACCCAGGAGTAGGGGCCCTAA
GGGCAGGGAACCTGGAATGGGCTGTGTGTTCTGCAAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGG
CCTGGAAGGGGACTTCAGAAGCTACGGGGCAGCAGACCACTATGGGCCTGACCCCACTAAGGCCCGGCTGCATC
CTCATTGCCCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGGCTTCCTTGATAGTGGCAC
CATCAGGGGTGTGTGTCAGGGATTGGGGTGACCCGTGTTCAATTGCCCTGTATGACTATGAGGCTCGAACTGAGGATGA
CCTCACCTTCACCAAGGGCGAGAAGTTCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGCTCGGTCTCT
CAGCTCCGGAAAACTGGCTGCATTCCCAGCAACTACGTGGCCCTGTTGACTCAATCCAAGCTGAAGAGTGGTA
CTTTGGAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTTCACCAGGCAACCCCCAGGGGGCCTTTCTCAT
TCGGGAAAGCGAGACCACCAAGGTGCCTACTCCCTGTCCATCCGGGACTGGGATCAGACCAGAGGCGATCATGT
GAAGCATTACAAGATCCGCAAACTGGACATGGGCGGCTACTACATCACCACACGGGTTCACTCGGTGCA
GGAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGTGCAACCTGCTCATCGCGCCCTGCACCATCATGAA
GCCGCAGACGCTGGGCCTGGCCAAGGACGCCTGGGAGATCAGCCGCAGCTCCATCACGCTGGAGCGCCGGCTGGG
CACCGGCTGCTTCGGGGATGTGTGGCTGGGCACGTGGAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCC
GGGCACCATGTCCCCGAAGGCCCTTCTGGAGGAGGCGCAGGTTCATGAAGCTGCTGCGGCACGACAAGCTGGTGCA
GCTGTACGCCGTGGTGTGCGGAGGAGCCCATCTACATCGTGACCGAGTTTCATGTGTACGGCAGCTTGCTGGATTT
TCTCAAGAACCCAGAGGGCCAGGATTTGAGGCTGCCCAATTGGTGGACATGGCAGCCAGGTAGCTGAGGGCAT
GGCCTACATGGAACGCATGAACTACATTACCGCGACCTGAGGGCAGCCAACATCCTGGTTGGGAGCGGCTGGC
GTGCAAGATCGCAGACTTTGGCTTGGCGCGTCTCATCAAGGACGATGAGTACAACCCCTGCCAAGGTTCCAAGTT
CCCCATCAAGTGGACAGCCCCAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAGACGTGTGGTCCCTTTGG
GATCCTGCTCACTGAGCTCATCACCAGGGCCGAATCCCCTACCCAGGCATGAATAAACGGGAAGTGTGGAACA
GGTGGAGCAGGGCTACCACATGCCGTGCCCTCCAGGCTGCCAGCATCCCTGTACGAGGCCATGGAACAGACCTG
GCGTCTGGACCCGGAGGAGAGGCCTACCTTCGAGTACCTGCAGTCCTTCCTGGAGGACTACTTCACCTCCGCTGA
ACCACAGTACCAGCCCGGGGATCAGACATAGCCTGTCCGGGCATCAACCCTCTCTGGCGGTGGCCACCAGTCCTT
GCCAATCCCCAGAGCTGTTCTTCCAAAGCCCCCAGGCTGGCTTAGAACCCCATAGAGTCCTAGCATCACCAGGA
CGTGGCTGCTCTGACACCACCTAGGGCAACCTACTTGTTTTACAGATGGGGCAAAAGGAGGCCCAGAGCTGATCT
CTCATCCGCTCTGGCCCCAAGCACTATTTCTTCTTTTCCACTTAGGCCCTACATGCCTGTAGCCTTTCTCACT
CCATCCCCACCCAAAGTGCTCAGACCTTGCTAGTTATTTATAAACTGTATGTACCTCCCTCACTTCTCTCCTA
TCACTGCTTTCTACTCTCCTTTTATCTCACTCTAGTCCAGGTGCCAAGAATTTCCCTTCTACCTCTATTCTCT
TGTGTCTGTAAGTTACAAAGTCAGGAAAAGTCTTGGCTGGACCCCTTTCTCTGCTGGGTGGATGCAGTGGTCCAGG
ACTGGGGTCTGGGCCCAGGTTTGAGGGAGAAGGTTGCAGAGCACTCCACCTCTCTGAATAGTGTGTATGTGTT
GGTTTATTGATTCTGTAAATAAGTAAAATGACAATATGAATCCTC

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FIGURE 127

GGCACGAGGCTTCGTAAAGATGGCCGCGGAGGCTTTTGGAGCCAACTGGGAGCGCAGTACGCGTTTTCTGGAGCA
TGGGCAGAGGAGACAGGAACAAGCGTAGCATCCGTGAGCACCGATTGGCTGAAGCGAGCACCCGGGAGCTGACT
GGCTCCGCCATTTCGCGGGAAGGCGTTTGTGGTGCCAGAGAAAAGTAGCCAGAGCGGCGCAGTGGCGGCCGCGTTC
TGTGGTTTTCCGCTATTCCCCCAGACCCGCACCTTCTCGGCCTCTTTGCGGAGAATCGTGACCAAGATGTGGAAC
AGTGGATTTCGAAAGCTATGGCAGCTCCTCATACGGGGGAGCCGGCGGCTACACGCAGTCCCCGGGGGGCTTTGGA
TCGCCCCGCACCTTCTCAAGCCGAAAAGAAATCAAGAGCCCCGAGCCCAGCACATTGTGCCCTGTACTATATCTCAG
CTGCTTTCTGCCACTTTGGTTGATGAAGTGTTGAGAATTGGGAATGTTGAGATTTTACAGGTCCTATTGTGGGG
ATCATCAGACATGCAGAGAAGGCTCCAACCAACATTGTTTACAAAATAGATGACATGACAGCTGCACCCATGGAC
GTTCCGCCAGTGGGTTGACACAGATGACACCAGCAGTGAAAAACACTGTGGTTCCTCCAGAAACATATGTGAAAGTG
GCAGGCCACCTGAGATCTTTTCAGAACAAAAAGAGCCTGGTAGCCTTTAAGATCATGCCCCCTGGAGGATATGAAT
GAGTTCACCACACATATTCTGGAAGTGATCAATGCACACATGGTACTAAGCAAAGCCAACAGCCAGCCCCCAGCA
GGGAGAGCACCTATCAGCAATCCAGGAATGAGTGAAGCAGGGAACTTTGGTGGGAATAGCTTCATGCCAGCAAAT
GGCCTCACTGTGGCCCAAAACCAGGTGTTGAATTTGATTAAAGGCTTGTCCAAGACCTGAAGGGTTGAACTTTCAG
GATCTCAAGAACCAGCTGAAACACATGTCTGTATCCTCAATCAAGCAAGCTGTGGATTTTCTGAGCAATGAGGGG
CACATCTATTCTACTGTGGATGATGACCATTTTAAATCCACAGATGCAGAAATAACTGGATCTAACTGGGTACCTG
AGATATTTTACAGCTGGACCTAGTTTACAATCTGTTGTCTCCAGCTCTGCATATGTCTGGCCAGGGGGCTTCTA
GGAAGTAGGTTTCATCTATCAAATGTCTCCTCTGACTTCCTTTTGAACTTACTGCTCTTCTGTTTTATTTTGT
TTGTTTGAAGCTCAGAGGGAGATGGGCAATTGACAGGGATGCAATCCAGGGTGGGATTTCTTGAGGAAGTTACAA
ATAAGCTTGTTACAACATCAAGATAGATGGAATTGGAAGGATGCTACCAGGAGAGTACTTACATAGTGCTCAGGA
GTTTCTCTTTTAAATGTTTACTGCTGAAAGATGAGCAGGACCAGGGCGTTATAGGCAGAGCCCTAGCCGAGAA
ACCTGCTGGCCTCTGCCTGTTTTCAATTTCCCACTTTGGTTGTGTGGCATTACTTTCAGAATTGCATTTCTCTGCT
TGTCATGACTTTTTTACACACTTGCCATGACGTGTGTTTCTGTGAACATGAAGTTCTGCGGTAGTGCTCCAGGG
GCAGAGGAAAAGAAGAAGTGTTACTGCGTTTTGTACAAAATAAATACAGTCATATGTTTAATAAACAGTTCTAT
TGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 128

MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEKKSRARAQHIVPCTISQLLSATLVDEVFRIGNVEISQVT
IVGIIRHAEKAPTNIYKIDDMTAAPMDVRQWVDITDDTSSSENTVPPETIVKVVAGHLRSFQNKKSIVAFKIMPLE
DMNEFTTHILEVINAHMVLSKANSQPSAGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLIKACPRPEGL
NFQDLKNQLKHSVSSIKQAVDFLSNEGHIYSTVDDDDHFKSTDAE

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FIGURE 129

GGAGGGAGACGCAGAGGCGGACAAGATGGCGGCGGCAGCTGTACAGGGCGAGAGAAGCGGTGGTAGCGGAGGCTG
TAGTGGGGCTGGTGGTGCTTCCAAGTGCAGGACAGGGAGTGGCCGTAGCGGCTTGTTGGATAAGTGGGAAGATAGA
TGATAAGCCTGTAAAAATTGACAAGTGGGATGGATCAGCTGTGAAAACTCTTTGGATGATTCTGCCAAAAAGGA
GAAGAGCATCTTTCTCGTGGCCACAGGAAAGATCCTACAGGAATGGATCCTGATGATATTTGGCAGCTGTCCTC
CAGTCTTAAAGGGTTTGATGACAAATACACCTTGAAGCTGACCTTCATCAGTGGGAGAAACAAAGCAGCAGCGGGA
AGCCGAGTTCACAAAGTCCATTGCTAAGTTTTTTGACCACAGTGGGACACTGGTCATGGATGCATATGAGCCTGA
AATATCCAGGCTCCATGACAGTCTTGCCATAGAAAGAAAAATAAAGTAGCCAATTCTAAAAGTAGCCCTCTTCT
CCTGGATCTTGCTGAATTAGTGGCTTGGGGGGTGGGGGAGATAAAAAGAACTTAAAATGGGTAAAGTAAGAAATG
TTAAAAAG

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FIGURE 130

CTGGGCCGGGGAAATGGCGGCTTCAGGAGAGAGCGGGACTTCAGGCGGCGGAGGCAGCACCGAGGAAGCATTAT
GACCTTCTACAGTGAGGTGAAACAAATAGAGAAGAGAGACTCGGTTCTAACTTCGAAAAATCAGATTGAAAGACT
GACCCGTCCTGGTTCCTCTTACTTCAATTTGAACCCATTTGAGGTTCTTCAGATAGATCCTGAAGTTACAGATGA
AGAAATAAAAAAGAGGTTTCGGCAGTTATCCATCTTGGTGCATCCTGACAAAAATCAAGATGATGCTGACAGAGC
ACAAAAGGCTTTTGAAGCTGTGGACAAAGCTTACAAGTTGCTACTGGATCAGGAGCAAAAGAAGAGGGCCCTGGA
TGTAATTCAGGCAGGAAAAGAATACGTGGAACACACTGTGAAAGAGCGAAAAACAATTAAAGAAGGAAGGAAA
ACCTACAATTGTAGAGGAGGATGATCCTGAGCTGGAACGACAAAGGGAAGAAGAGATTGAAGCTCAAGAAAAAG
CCAAACGGGAAAGAGAGTGGCAGAAAAACTTTGAGG

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FIGURE 131

TCCAGCACCAAAGCGGCCGTTCTCGGATTCCGGAGCGTTCTGGAGCCCCGAGAGACGCCCCGGGGTCTAGAAGC
TCCCCGGCGGGCGCCAGTCCCGGCTTCATTCCGGGCGTCCCTCCGAAACCCACTCGGGTGACGGGTCGTCGGCGA
GCCGCGACCGGGTCTGGCGCGCACCATGATCGTGGCGGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGC
GGTTCGCCCCGGGCGGCGTCCGCGACTCGGGCCCCGGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCGAGGCCCTC
GAGGGCCCAGCGCCTTCATCCCCGTGGAGGAGGTCCTTCGGGAGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGC
TGGAGGCACTGATGTCTCTGGGCGAGTAGACAACCTGGCAGTGGTGATGGGCCTGCACCCTGACTACTTTACCA
GCTTCTGGCGCCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGGCCAGCTCCTGGCGCCACTACATTGCCA
TCATGGCTGCCGCCCCGCCATCAGTGTCTTACCTGGTAGGCTCCACATGGCCGAGTTTCTGCAGACTGGTGGTG
ACCCTGAGTGGCTGCTGGGCCTCCACCGGGCCCCCGAGAAGCTGCGCAAACCTCAGCGAGATCAACAAGTTGCTGG
CGCATCGGCCATGGCTCATCACCAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCACACTTGGTCCCTGG
CCGAGCTCATTACGGCTCTGGTCTGCTCACCCACTGCCACTCGCTCTCCTCCTTCGTGTTTGGCTGTGGCATCC
TCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCCCAGGCACCTACACCCCCTAGTGAACAGAGCAGCCCCCAA
GCAGGGACCCGTTGAACAACCTCTGGGGGCTTTGAGTCTGCCCGGACGTGGAGGCGCTGATGGAGCGCATGCAGC
AGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCCCAGGAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGT
CAGAGAGCCTGCTGGTGACCCCTCAGCTGACATCCTGGAGCCCTCTCCACACCAGACATGCTGTGCTTTGTGG
AAGACCCTACTTTTCGGATATGAGGACTTCACTCGGAGAGGGGCTCAGGCACCCCTACCTTCCGGGCCCAGGATT
ATACCTGGGAAGACCATGGCTACTCGCTGATCCAGCGGCTTTACCCTGAGGGTGGGCAGCTGCTGGATGAGAAGT
TCCAGGCAGCCTATAGCCTCACCTACAATACCATCGCCATGCACAGTGGTGTGGACACCTCCGTGCTCCGCAGGG
CCATCTGGAACATATACCTGCGTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACCAGCTCC
TGGAGCGGAACCTCAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACC
TCTTCTGGAGGCACTTCCGCCACTCAGAGAAGGTCCACGTGAACCTTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
CTCTGCTGTACGCCCTCCGTGCCATCACCCGCTACATGACCTGACTCCTGAGCAGGACCTGGGCCCGGTTAGCT
CCCCACAAGGACTTCTCTGTCTGGAGACAGCCCCAGACCCTTTTGTGTCCCATGCCCACCCTCCCCACGCTGCAG
TGGGCTTGTGTGTGATGTGCAGTCCCGAAGCCACACCCTCCCTTTTCTCACTGGAATGGACAGTTCATTGCACT
GACTCTGGGATCTCAGCCCTGCTCCTGGGAGCTGGAAGAGCACTTGGAGATCCTAAGGGACCACACCCTTCTCC
TTCCCTTGCCACAGAGGCAGAGGGCACAGGAAAGAAGCCGGGCCAAGCTCGGAATTAATGTGCCACAAGTGTG
TGGCCTTCTGAACTGGGAAGTCCCTGGCTGGCCCCCGGGGGAGAGGGGGCAAATGCCTCCGGGACTGACACTCCA
GGCAGCTTTGCCTTCTCTCCCCTGTCAATTTCCAGATTTCACTACCTCCTACTTGCCATTACCCATCAATGTGAA
AGTCAGGGTCACAGCTGGTCTGTGTGTCCAGTTCCCTAAAAGCCTGTTCTGTTGGGCAGCCTGAGGCTGTTGCC
GAATCCTAGTTTCACTTTTTTGAATTTCTTTGCCCTTTTCCCTTTTCTCCATGCTTAATGGTGTGAGGCGTCAGG
AGAGAGGCCAAGTACATAAAAAAAAAAAAAAGCAGATTATCTCTAGAGAGTTTGAGCCTTTGCTGGTCACATTGC
CTTCTGAAGAGGAGGGAGTATTAGATTATAAATCCTCTTTATTTTGGTCCTTTATGCTTGAGGTTCCAACCTGGA
GCCACAGTGTGTGAGAGGAGGAGGAGAGGGAGAATTCTGTTCTCCAGAGCTGCACCTGCCTCGCAGAGGCCAGC
ACCCCACTCTCCTGCCTCCAGTGGCCCTGCCGCAGATGTCTCCAAAAAGTTGAGCCTTTCTAGATGGCTTAGGT
GGCACCATGGCTCAGCAGGAGGGGGCGGGAGGCACCAAGGTTCTTGTGTTGGACCCTGCCCTGGGCCATGGCCAGG
TGACCATGGCTACATTGCCAAACCTCTGACTGCCACAGCTGCAGACTGAGAGGGTGGGTCTGAGTCCCCACAATG
TCTGAAGCTGCCCTGGGATTCTCAGGCCAACCTGCCAACAGCAAGCGGATTTCTTGCAAGATCAGGGACCCCA
TTTCTGCAGCCAGTGTCTCCTGGGTGCCTTCTGAGGACTCCACCCCCATCCAGTATCTCATCTGTCCCCTCTC
CTGGGGCTTAAGTGGGTGCTTCCAGGCAGAAGCAGCCAAGGACCGATTCCAGGCACCTTCTGTAGCAAATGACT
GTGAATTACGACTTCTCTTGCCCTTCTTCTAGCAGTCTGTGCCTCCTCTCTGACCAGTTTGGAGGGCACTGAAGA
AAGGCAAGGGCCGTGCTGCTGCTGGGCGGGGAGGAGAGGAGCCTGGCCAGTGTGCCACATTAAATACCCGTGCA
GGCGCGGAGAAGCAACCGGCACCCCTTCCGGCCTGAAAGCCCTCCCTGCAAGAAGGTGTGCAGGAGAGAAGAGG
CCCCGGCATGGGGATCTGGGTTCTAGAGGGCATGTGATGACTGTAAATGTTCACTGGGTGGGTAGGGAGTGGTAT
CCAGTGTTCAGTGCAGAAATCTTTGGCTTTGCTACCAGTTCATATGATGAGAAATAAACGTTGCTGAGGTTT
TGTTTCATAAAAAAAAAAAAAAAAAA

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FIGURE 132

MIVADSECRAELKDYLRFAPGGVGDSGPGEEQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWRLLHYLLHLDGPLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGCGILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYSLIQRLYPEGGQLLDEKFQAAYSLTY
NTIAMHSGVDTSVLRRAIWNYYIHCVFGIRYDDYDYGEVNQLLERNLKVYIKTVACYPEKTTTRMYNLFWRHFRHS
EKVHVNLLLLLEARMQAALLYALRAITRYMT

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FIGURE 133

GAGACGTCGGCTTCCGACCGGAAGTGAGAAGAGGAGGAAGTTGGCTGGTTGCACCGATCTGGGGGCTTCCCGGGC
TCGGGTAACCGGAGTGCTGGTATCTAATCGTCGCTCAAAAGCTCCTAGGTATATCCCGTGCCTTACCTGACTGGG
GGCTCTGAGTCCAGTTGTGTTGTCTTCAACTTAGACACCATGGAGGCACCTCCAGTCACCATGATGCCTGTCACT
GGGGGCACCATTAACATGATGGAGTACCTGTTGCAGGGAAGTGTTTTAGATCACAGTTTGGAAAGCCTCATCCAC
CGCCTTCGTGGTTTTGTGTGACAACATGGAACCTGAGACTTTCCTTGACCATGAGATGGTATTCTCCTTAAGGGC
CAGCAAGCCAGCCCATTTGTTCTCAGGGCCCCGACGCTCTATGGACAGGGCAGGGGCACCCATGGCATCTGCGCTAC
CTGGGACAGCCAGAAATGGGAGACAAGAACCGCCATGCCCTGGTGCGAAACTGCGTGACATTGCCACATCTGAG
AACCTCACCGACTTCTTGATGGAAATGGGCTTCCGCATGGACCATGAGTTTGTGCTAAGGGACATTGTTCGGT
AAGGGCATCATGAAGATTATGGTGTACAAGATTTTCCGCATCCTGGTGCCAGGGAACACAGACAGCACTGAGGCC
TTGTCACTCTCCTATCTCGTGGAATTAAGTGTGGTAGCACCCGCTGGGCAGGACATGGTCTCTGATGACATGAAG
AACTTCGCAGAACAGCTAAAACCTCTGGTTCACCTAGAGAAAATAGACCCCAAGAGGCTCATGTGACTAAGAGGA
TCTGTCCACATTTGGGGCCTATCCTTACTTGTGTTTTGAAAAAATATGTTTGCTTTTTTTGGTTTTTGTGTTTTG
TTTTTGAGACAGAGTCTCGCTTTGTTTCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGC
CTCCTGGGTTCAAGCAATTCTCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACATGCCACCATGCTCAG
CTAATTTTTGTATTTTTAGTAGAAATGGGGATTACCATGTTGGTCAGGCTATTCTCGAACTCCTGACCTCGTGA
TCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAAAATATGTTTT
AAATGTCCCATTTACCATTTGCCAGGCAGGCATTCTTCCTCAGGGAGAGGATGGTGAGAATTAATTGGTTCTTT
GCACTGTTCTCCTCATGTGGCGATTTCACTTTCATGACAGCCTTTCTATATTAAAGGCTCAGGATGTCACGGAGA
ATCTATCTAATCCCACTGTATTAAGAGGGGAAACCGGGCCAAGCGCAGTGGCTCACACCTCTAATCCCAGCACTT
TGGGAGGCTGAGGTAGGTGGATCACCCAAGGTCAGGAGTTTGAGACCAGCCTGGCCAAATGGTGAAACCCCATCT
CTACGAAAAATACAAAATTTAGCCGGGCATGGTAGCAGGCGCTTGTAATCCCAGCTACTTGGGAGGCTGAGGCTG
GAGAATCGCTTGAACCCAGGAGGTGAAGGTTGCAGTGACCAGAGATGACGCCATTGCACTCCAGCCTGGGTGAGA
AGAGCGAACTCCGTCTCAAAAAAATAAAAAATGAAGAGGGGAAACCAGAATAAATTATCTTTTGGAAAGGACA
ATTTCTTGTTTGGCCATTTGTGTATAAGGTTGGTAACATTAGAGGCTGTGAGCTTGTGTTACATGGTAATAAAGC
CAATGAAGAG

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FIGURE 134

GGCCGGCCTCTCCCTTCCCGGGGTTCCTTCGCGCCGGGCCCCCTTCCGCGTGGGTGAGTGAATGTGAGAGTCAGCGC
TCGCGCCGCGCGCGCCGCCCTCCGCTGTTCCGGCGCTCTGCTTTAGGCGGTGGGGGGCGGGCGCGCGCTAAA
AGCATAGAGACGGGCATTGAGCTCTTGGGCTAGAGCGTCGCCGAGTCGGAGCCGGAGCCTGAGCCGCGCGCTGTG
TCTCCGCTGCGTCCGCGGAGGCCCCGAGTGTCAAGGACAAAAGCCTCCGCCTGCTCCCCGAGACGGGGCTCATC
TGCCGCGCGCGCGCGCTGAGGAGAGTTCGCCGCGCTCGCCGCCCGTGAAGATCTGAGAGCCATGTCGCCAGCA
GCCTCTTGGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAAATGGATCTGTACATCAAAAGGATGGATTAA
ACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATAATGCATATACTGCCATGTCAGATTCCCT
ACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCCTATTCTTTGGGTGAAGCTGCTTGGTCTACGGGGGGTG
ACACAGCCATGCCCTACTTAACCTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCCTACCAGATGCAATGT
TTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCATGGTTTTAATTTCTTTCCAGTGGGATTG
ACTTCTCAGCATGGGGAAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGTAGCAATTATGCTT
ATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACCCTCAATAAGGCTC
CTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCAAGCAATGTTCCAA
AAGTTGTAGGTTCTGCTGTTGGTAGCGGTCCATTACTAGTAACATCGTGGCTTCCAATAGTTTGCCTCCAGCCA
CCATTGCTCCTCCAAAACAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAACCTAACTGAAGA
CCAAGAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCCGATAAAGCATAACATGGATATTGGAACCTGGGATA
ACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTCAGCCAACCCAGGGGTCTCCTC
AGCCTGTAGGTCAGCAGGCTAACAATAGCCCACCAGTGGCTCAGGCATCAGTAGGGCAACAGACACAGCCATTGC
CTCCACCTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGCTGGGTAGCACCTC
GGAACCGTGGCAGTGGGTTCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAGGCTGGTTCTGGAT
CTACTCCTTCAGAACCCCAACCCAGTGTGGAGAAGCTTCGGTCCATTAATAACTATAACCCCAAGATTTTGACT
GGAATCTGAAACATGGCCGGGTTTTTCATCATTAAGAGCTACTCTGAGGACGATATTCACCGTTCCATTAAGTATA
ATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCCATGAACGGGAAAGGCCCG
TTTACTTACTTTTTCAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCTGCTGIGGACTACA
ACACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCGTTTTGATGTCAGGTGGATTTTTTGTGAAGGACG
TTCCAATAGCCAACTGCGACACATTTCGCCTAGAGAACAACGAGAATAAACCAGTGACCAACTCTAGGGACACTC
AGGAAGTGCTCTGGAAGGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACCACTTCCATTTTTG
ATGACTTCTCACACTATGAGAAACGCCAAGAGGAAGAAGAAAGTGTTAAAAGGAACGTCAAGGTCTGGGAAAT
AAAAGGCAGTTCTACACAGACTGCAGCAACGGTTGCATCTGCATATCCTAAGAGGAAAAAATGACCTTCAAGAGA
ATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAAGTATTGGAATTTTACA
AAAGACATAGGACTTAACTGGAATGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG
TTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTTGTGATTTCAGAGCATAATGCTATGTTTTTTTGTCTTT
TTACTATGTTTTTCGATTTTTTAAGTCCGTAAGTGCATACAGTTTTCTCTAATTTTTTAAACCTTTTCTCTCTCC
ATTTTGACATTTGCACCTTGGAGAACACTTGAGTTGTGAAGGTTTGGGCATCCACCCAGAAAGTGGGAATTTGA
TTTTATCCTTCCGAACGGAAGAACATTTTATGAAGAATTTTGTCTAGGAGAATATAACAGTGTTACCCAAGG
TTGTGCTTTAAGGTGGTTTCAATTTCTCTGACCTTTTGTACTCAAAGTAAAGTACTAGGAGTCCTAAGAAATG
TTCTGTTCTGTACATTATACTGATTAAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGTGGTAAAAACTCG
TTTACAGAAATGCATTTTGAAGAGAAAAATACTGTAAACGTGTCGTGAATGTTTCTTCAGTTTCTTGTTCAGC
CAATGAGGAAAGGGCATTGCCTTTCTTTTACCATTAATCACTTCTCAATAAACGTGAGATCCTGTTGAGCATC

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FIGURE 135

GTACGTCGCCGGGGTTTCGGCTGCGTCCGTCCCGCCGCCGCCCGTTGCCGCCGCCGCCGCTGCCGCCGTGCTCTC
GCTTTGCCCGCCGCCGCTAAGGGGGGCTGGGGCCGGGGCCAGCCATCACTGCCGTTGCCGGGATGCCGCGGGTG
TACATCGGCCGCTGAGCTACCAGGCCCGGGAGCGCGATGTGGAGCGCTTCTTTAAGGGCTACGGGAAGATCCTG
GAGGTGGATCTGAAGAACGGATATGGTTTTGTGGAGTTTGATGATCTGCGTGATGCAGATGATGCTGTTTATGAA
CTGAATGGCAAAGACCTTTGTGGTGAGCGAGTAATTGTTGAGCATGCCCGCGGCCACGGCGAGATGGCAGTTAC
GGTTCGTGGACGCGAGTGGATATGGTTATAGAAGAAGTGGCCGAGATAAATATGGCCCTCCTACTCGCACAGAGTAC
AGACTTATTGTGGAGAATTTGTCAAGTCGGTGCAGCTGGCAAGACCTAAAGGATTATATGCGTCAGGCAGGAGAA
GTGACTTATGCAGATGCTCACAAGGGACGCAAAAATGAAGGGTGATTGAATTTGTATCTTATTCTGATATGAAA
AGAGCTTTGGAAGGTTGGATGGAACTGAAGTCAATGGGAGAAAAATCAGATTAGTTGAAGACAAGCCAGGTTCC
AGACGACGCCGGTCTACTCCAGAAGCCGGAGTCATTCAAGGTCTCGCTCTCGAAGCAGACATTCCCGTAAGAGC
AGAAGCCGAAGTGGCAGCAGCAAAAGCAGTCATTCTAAGAGTAGATCTCGGTCCAGGTCCGGCTCCCGTCCCGG
AGCAAGAGCCGGAGCCGGAGCCAGAGTCGGAGCCGGAGCAAGAAAGAGAAAAAGCAGGAGCCCCAGCAAGGAAAAG
AGCCGCAGCCGCAGCCATAGCGCTGGCAAGAGCCGCAGCAAGAGCAAAAGACCAAGCTGAAGAGAAGATCCAAAAC
AATGACAATGTCCGGAAAACCAAGAGCCGGAGTCCTAGCAGGCATAAAAGTAAGAGCAAAAGTCCGAGCAGGAGT
CAGGAGAGGAGAGTGGAGGAGGAGAAGCGAGGGAGTGTGAGCAGGGGCAGGAGCCAGGAGAAGAGCCTCCGCCAG
AGTCGGAGCCGGAGCAGGAGCAAAAGGGGGCAGCAGGAGCCGGAGCAGGAGCCGCAGCAAGAGCAAGGACAAGAGG
AAGGGCAGGAAGAGAAGCAGAGAGGAGAGCCGCAGTCGCAGTCGCAGCCGCAGCAAGAGTGAGAGGAGCAGAAAG
CGAGGCAGCAAGCGAGACAGCAAGGCCGGGCAGCAGCAAGAAGAAGAAGAAGGAAGACACTGACCGCTCCCAGTCC
AGATCTCCATCCCGCTCCGTGTCAAAGGAGCGGGAACATGCCAAGTCTGAATCCAGCCAGAGGGAAGGTGAGGA
GAGAGTGAGAATGCTGGCACC AATCAGGAGACCCGGTCCAGGTGAGATCCAATTCCAAATCGAAACCAAACCTT
CCATCAGAATCACGCTCCAGATCAAAGTCAGCTTCAAAAACCCGATCTCGGTCCAAGTCTAGATCCAGGTCTGCT
TCCAGATCGCCCTCCCGATCTAGATCTAGGTCCCACTCAAGGTCTAACTGGCTATGGCCACAGCTGGAACCTACC
CGAGAAGTCTTTTGTACATGTTTGGTAGCCGTAGCACAAAGTGATTGGAGTAGAACATGTCACTGCTGTACATTTT
TAACTCCCCTAATGGTGTGTCTATAATTGTTAAATCTAAGTGCTTCCTCTCAGTAAAGCCTCCTGGCACCAGGCC
TTCTTGCTCGACTGAAAAAATTTTCTCTTTGAAAATCCCTTTTACTCATGGCCACAGTAGAATATCCAAAAC
GCCTTGGCTTTCAGGCCTGGCCTTTCTACAGGGAGCTCAGTAACCTGGACGGCTCTAAGGCTGGAATGACCACA
TAGGTAGGTATGGTGAGTTCAACCATTTTGTCTCTTGAATTGATGCCCTTCGATGTATGCCATTTAGTGAAAGTG
CTAAGTCTTAAGTTTCTACCACTTTGGTTTCATATTTTGGACTTAACAAAGTTGTGAATAGCACAGTCGAGGA
AAATTGATACCTGCAGTAACCCATAGGAAATAAACTGTAGAGTTCCATATTCTGGTATTGTGATTATATTGTTTT
ATATT

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FIGURE 136

AGGGTTCTCTCCCCTTGCCACCATGAGCGAGTCATTTGACTGTGCAAAATGCAACGAGTCCCTGTATGGACGCAA
GTACATCCAGACAGACAGCGGCCCCCTACTGTGTGCCCTGCTATGACAATACCTTTGCCAACACCTGTGCTGAGTG
CCAGCAGCTTATCGGGCATGACTCGAGGGGAGCTGTTCTATGAAGACCGCCATTTCCACGAGGGCTGCTTCCGCTG
CTGCCGCTGCCAGCGCTCACTAGCCGATGAACCCCTTACCTGCCAGGACAGTGAGCTGCTCTGCAATGACTGCTA
CTGCAGTGCGTTTTCTCGCAGTGCTCCGCTTGTGGGGAGACTGTTCATGCCTGGGTCCCGGAAGCTGGAATATGG
AGGCCAGACATGGCATGAGCACTGCTTCCTGTGCAGTGGCTGTGAACAGCCACTGGGCTCCCGTTCTTTTGTGCC
CGACAAGGGTGCTCACTACTGCGTGCCCTGCTATGAGAACAAGTTTGCTCCTCGCTGCGCCCGCTGCAGCAAGAC
GCTGACACAGGGTGGAGTGACATACCGTGATCAGCCGTGGCATCGAGAATGTCTGGTCTGTACCGGATGCCAGAC
GCCCCCTGGCAGGGCAGCAGTTTACCTCCCGGGATGAAGATCCCTACTGTGTGGCCTGTTTTGGAGAACTCTTTGC
ACCTAAGTGACAGCAGCTGCAAGCGCCCCATCGTAGGACTCGGTGGAGGCAAGTATGTGTCCCTTTGAAGACCGACA
CTGGCACCACAACCTGCTTCTCCTGCGCCCGCTGCTCTACCTCCCTGGTGGGCCAGGGCTTCGTACCGGATGGAGA
CCAAGTGCTCTGCCAGGGCTGTAGCCAGGCAGGGCCCTAAGCCAGGGCTCCTGGACCCAGGGCTTTCCCATACCAC
GGGCCCAGGACTGTGGCTCCTTTTCTAAACCACCTCTGGGACTCAGCTCCCCCGCCAAAAAAAATGGGTCTCCT
TCTGGGCTCCAGGATTGTCTCCCCACTCCAGCATCCCCAACTGGTACTCCCTGACCCAGGGCCCCAAACCTGGG
CTCTTACAGAGCCTCCATGAGTCAAGCCCCCTCCCCACACCTGGACTCCAGAATTCACCTCTCCCCTGCAGTCT
GGGTTCCCAGACTGAGTCCTCTCCCCAAATCAGGGCTCTAGACCCGAGCCCTCCAAACCTGGACTCTGGGACTTA
GGCCCCCTTAAATCTAGACTTCTCTTTATAGGTTTCAGGTCTCCTATGGGTGCCTGGGAAGTCCTTGAAAGTGGA
CTGTTCTCAGGCTTGACCTGCCCCACCCCATCCCCGCGGTTGAGGCTGTGGGGCAGCAGATCAGGAGCCCACTG
ATAAGGGGCCCTAGGGTACAGGGTGCTGCCCAGCAGGTGCCACCGAGTGCTTCTCATTTTATTTTCAGCTCCAT
TTTGCCCATAGATGGGCAGAGGGGTGAGATTGGCTCATCCCCCTTCCAGATTCTGCAATAAAGCGGTGTGAGG

FIGURE 137

CTACAGATACTGCCGTGTGAGAGTACCTTGAGGGGCTCCTGAAAGACCTACTGCCAGGACCAGTGACCCTGGTGAT
GGAACGCTCGGAGGAGCTCAACAAGGACCTAAACCCCTTTTACGCCTCTTTGTAGGCATTTCGGATTCTCGATCATGC
TTTTATGCAAGACTTGGCTCAGATGTTTGAGGGTCCGCTTGCTCTCACTAGTGCCAACCTCAGCTCCCAGGCCAG
TTCTCTGAATGTCGAGGAGTTCAGGATCTCTGGCCTCAGTTGTCTTGTTATTGATGGGGGACAAAATTGGGGG
TGGCCAGAGCCCCGAGTGTCGCCCTTGGCTCAACTGTGGTTGATTTGTCTGTGCCCGGAAAGTTTGGCATCATTTCG
TCCAGGCTGTGCCCTGGAAAGTACTACAGCCATCTCCAACAGAAGTACGGACTGCTCCCCTCACATGCGTCTTA
CCTGTGAACCTCTGGGAAGCAGGAAGGCCCAAGACCTGGTGCTGGATACTATGTGTCTGTCCACTGACGACTGTC
AAGGCTCATTTGCAGAGGCCACCGGAGCTAGGGCACTAGCCTGACTTTTAAGGCAGTGTGTCTTTCTGAGCACT
GTAGACCAAGCCCTTGGAGCTGCTGGTTTAGCCTTGACCTGGGGAAAGGATGTATTTATTTGTATTTTCATATA
TCAGCCAAAAGCTGAATGGAAGTAAAGAACATTCTTAGGTGGCCTTATTCTAATAAGTTTCTTCTGTCTGTTT
TGTTTTTCAATTGAAAAGTAATTAAATAACAGATTTAGAATCTAGTGAGAGCCTCCTCTCTGGTGGGTGGTGGCA
TTTAAGGTTCAAACCAGCCAGAAGTGCTGGTGCTGTTTAAAAAGTCTCAGGTGGCTGCGTGTGGTGGCTCATGCC
TGTAATCCCAACATTCTGGGAGGCCCAGGCGGGAGAACCTGCTTGAGCCCAGGAGTTCAGAATCAGCCTGGGCAAC
ATAGCAATACTCCGTCTCATAAAAAATTAATAAATAAAAAAGTCTCAGGTGACCAAAGGCTCCTGAAGCTAGAACCA
GGTTTGGATAAAAGATTGAAGAGCCACAGGCCACTCTTCCCTCTGAGCCATTGGGCCTAGTGGTGTCATGTATTGT
AATTGCTCGCAGGGAGAGCAGTCTTTTTGGTGTAATAGTGGGATGTCTGCTTAGTTGGCAGGGGTTTTCAGTCCAA
TGGAAGAATATTGGGAAATAAACCTCCACTATCCTTTATAGCCAGGGACTTTTTCTTATTTATTTCATAAAATAA
ATTATAGTTAATTATACCCATAACACCTTTATTTAAATCCAGTGTTCTCCGCAGCCTTTTGTCTATTTATATGTG
TACCAAGTGTTAAACATAATTATTATTGGGCATTTGAACCTTTGTTTTCTTTAAAGAAATGCTGCTATTAACAT
ATTTGTAAATGGA

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FIGURE 138

MERSEELNKDLNPFTPLVGIRIPDHAFMQDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECRLGSTVVDLSVPGKFGIIRPGCALESTTAILQQKYGLLPASHAYL

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FIGURE 139A

AGGCCCAGCGCTGGCGCAGTGAGAACTTCGAGAGACCCGTGGACCTGGAGGGCTCTGGGGATGATGACTCCTTTC
CCGATGATGAACTGGATGACCTCTACTCGGGGTCGGGCTCGGGCTGTAAGTACCCCCCTCCCTACCTCTGCCTGG
GGGCAGTGACCAGTCTGTATCCAGCCTCAACTCTGAGAAGCCACGGGGGGCTTGCTTCAGTGAGGCAGGGGGCA
TTCAGTGCCTGGGTGAGGCAAGTTCTTCTTGCTCTGGATCCCCAGAACAAGAAGGGCAGAACATCCTTCTGGGGA
TAGAACAAGACCTGGGAGGACCTCAGGGGCCAGAATGTCCAGGTCTCCAGGGTCCCACGTCTGCATCTTTGTGTG
TGCTATGTGGCTTTCTCTGCAGACCTTGCTTGTTCCGGTGGTCCCGTCAGGTGCAATAAGCTGTGGCCAATGGT
GGGGTTAGGGCAGTGATGACACAGGGCAGGTGCTTCAAGTGGTGCCTGGGATGGCCCCGCCCTGGGGAAGGGGAG
CCAGGTGAGCTGGGTCTAGCAGAATCTCGGGAGAGAAGGGCACCGCGAACCCCACTCTGCCATGTAGCAACTGTG
TGCCCCCTCGGTGCTCCCCCTCCCTGAATCCCTGTATTTTACCTGTGGATGGTGAGAAATACGACTTCTTCTCAG
TGCTCTAGGAGGGTTTGGGATAGGAAGCTGGGGTCTGGCACAGAGGAGGAGCTCTCAAATGGTAGCAAAAAGA
AGGCAGCTGAGACTGGGCCCAGTGAGGGCACGGGCTGGCATCTGAGGAGATGGTACGGGGTCTGCACGCCACAGA
GCTGGCTCCCCACAGCCCTCGCCTCTGGTCTCCCCCTCCTTAGCCAAGTCCCTTGAGCCTCTTTCAAATTAATCTT
TGTAACCCCGTTTATATTGGGTACATCTCTATTGCAAAGTTCCTGGCTCCCCCTCCCTCCTGCCTGGTTCCG
AGCCCAGGAGCTGGCTGTGGCTTCTCCCTCCCCCATCCCTACTCCCATCTCATTTCCCTCCCAAGTTCCTTCAC
TGTCGCGCTTTGCGTCAGCCAGATTGCTCAAGCAGTTCCTGCCTCAAGGGCTTCTTTTCCCTTTTACCCTCC
GCCTCTGCCTCTGGGGGAAGCCCTTAGTGTAACACCCCTGCCTTGAGCTTGTTGGTAGGGGTGCCTTTGGGGTCTG
ACTCTTCCCAGAATGCCACTCCTGTGTTCCTTGCAAGCCCCAGCAAGTTTGCAGCCAGTAGCGCCTCAGTTGC
TGCTGCCTGGATTCAACCTCATAGAACTGTAGGCTGGGTGGGCAGGAATAGTCAAGGAAGGCTTCCCGGGAGAG
GCGGCCCCCAGAATTTTGAAGTGGCAGAGAGAAGTTGGGGAACATCAGCAACTGACCACCTTTAGCTGGGCTGT
GCCTTCCCTCCTTTCTCTCATCTTTTCTGGGAAAATTGGGTAAAGAGAGGGGGTTGGGAGACCTAATCTTGATGGC
CATTGCTTACCTGGGATCCTCATGCCCCCTACAACCACCCAGCTCCCTAGCTCTCTCCCTCTCCCCACCCCCCTC
AGACTTCGAGCAGGAGTTCGGGCATTGAGACAGCCATGCGCTTCAGCCCAGATGTAGCCCTGGCGGTGTCCACCAC
ACCTGCGGTGCTGCCCCACCACGAACATCCAGCCTGTGGGCACACCATTGTAAGAGCTCCCCCTCTGAGCGUCCAC
CCTGGAGCCAGCCACCAGCCCCCTGGTGGTGACAGAAGTCCCGGAAGAGCCAGCCAGAGAGCCACCACCGTCTC
CACTACCATGGCTACCACTGCTGCCACAAGCACAGGGGACCCGACTGTGGCCACAGTGCCCTGCCACAGTGCCAC
CGCCACCCCCAGCACCCCTGCAGCACCCCTTTTACGGCCACCCTGCTGTTATAAGGACCCTGGCGTACGGAG
GCTTCTGCCTCTCCCACTGACCACAGTGGCTACGGCACGGGCCACTACCCCCGAGGCGCCCTCCCCGCCACCAC
GGCGGCTGTCTTGACACCGAGGCCCCAACACCCAGGCTGGTCAGCACAGCTACCTCCCGGCCAAGAGCCCTTCC
CAGGCCGGCCACCACCCAGGAGCCTGACATCCCTGAGAGGAGCACCTGCCCTGGGGACCCTGCCCTGGACC
CACAGAGGTGGCTCAGACCCCACTCCAGAGACCTTCCCTGACCACAATCCGGGATGAGCCAGAGGTTCCGGTGAG
TGGGGGGCCAGTGGAGACTTCGAGCTGCCAGAAGAAGAGACCACACAACCAGACACAGCCAATGAGGTGGTAGC
TGTGGGAGGGGCTGCGGCCAAGGCATCATCTCCACCTGGGACACTGCCCAAGGGTGCCCGCCGGGCCCTGGCCT
CCTGGACAATGCCATCGACTCGGGCAGCTCAGCTGCTCAGCTGCCTCAGAAGAGTATCCTGGAGCGGAAGGAGGT
GCTCGTAGCTGTGATTGTGGGCGGGGTGGTGGGCGCCCTCTTTGCTGCCTTCTTGGTCACACTGCTCATCTATCG
TATGAAGAAAAGGATGAGGGCAGCTACACGCTGGAGGAACCCAAGCAGGCGAGCGTCACATACCAGAAGCCTGA
CAAGCAGGAGGAGTTCTATGCCTAGTGGAGCCACAGTGCCCTCCCTGCAGCCTCAACACCACCTGCTGTCCAGTC
CCCAGCCTGGCCCCACCAGCCCAAGCCTGGGACTGGGCTTGAACCTGGCCCCAGTTCTTCTGCCCCCTCTCTCC
CAAGGTCTGCCCAGGCTGCCAGCCTCACACAGATCTTCCCCGAGGAAGAGGGGCTGCTGCCATCTGCCCCAGACT
GTGCCCTTACGAGCTCATCTCTTGTTCCTCATCCCTGCCACCAGTCTGGGGCTTCAGGACCTCATGTGAGATG
GATGGGAGGAAGAAAGCTCCTGATTGGCTGGTGGTGAAGAAAGGTGGGGCTTGAGATGAGCCTGAGCCCTGAC
TTGGCACCCACAGTGTCTACTGAGATCTCCTTTTGGGGCAGAGAGGCACTCAGGCTGGTTTCCAGGACAAACAT
TTGGTAAACACAGCCCTTGAAATCATCTAGACACTGCAACCTCTTGCTCGTATCCAGGGCCTCTCTCTAGCTGG
GTGAGAGGGTGTCCCTTGTACACAGCCTGTTTTGTCTGGTCTCTCTGGGGTGTGTAATCTCTCTCTTGCCTG
CCAAGTACACATGTACCCAGACTTCATTTCTTCTGCATCTTCCCCAAGAAACAGCTTCCTGAGGGTGTGGGG
CAGCCACTGGTGAGGAGGGGCTGCTCTGATGTCCCTCCTATGAGGGGACTCTGCACAGACACCATTGCCACACT
ATCACCATATTTTCACTCAGTCACACACAAGACAAAAGCATGCAATGACAAAACCATACGCAATCCTGACCGCCC
AGCCAATCAAGACATATCACAGAACACACGCGTCTTCCAAGAATGTTTATCCTCATGCATCACTTACACACCCC
CAGACACGTACTGCAATGCAAGTCACTAGTCATGGTCACATGACAGTGACAGTGTGGCCTCCTCCTACCCCAAT

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FIGURE 139B

ACACCCACACTCTGGCACCACACACATTGTCTCCAGCTTTCAGGCTTACTGGGGAGGGTGGAATCGAGCCAGAAC
AATCAGCCCATATTGGGTCCCCCTAAGTTGCCCCGTCATACTCAGTCCCATGCCATGGTGCCACACCAACCATG
CAGCCGCCAACCCAGCCAGTGTGAGACACAATCCCATGTGGATGCACAGTCTCACTCCACATGACCTGCTCTCA
ATGCTGGAGGGAAACAGGCAGGCCCTTGCCCTTCTCGGAAAAAGTGTGGGGCCACAGCCCTTTTAGGGCATTGCA
TGCAGGTGGGCCTGGCTTACCCCTACCTGCTTCCCTCCCCACCGCAGCTGGCAGAGGGGGAGGTTTGGGGCCAGA
CCCCACTAGCTGGGAGCCTGGGGGCTCCTCTAAGGCTGAGGAAGGAAATTTGGCCCCAGGTTGTTGGGGGTCT
TGGGTCTCCAGGACGGAAGGCCAGGGCAGGGAGGGGGCATGTGGTTGGGCTCCTTTATCTCCCTGTGTCCCT
TCTGCTTTGAGCTAGGGGGCTGACTCTGCCTCCCAGGACACAAGTCTCAAAGTGCCTGTGAGGGCGGGCCCTC
CGCACCTCTGCCCTCTGCCTGGCAGGCCAACCTCAGCCACCTGCCAGAGGCCCTCCCTGTGGACACCCCCCTC
ACCTATTTGGCCAAACAATTCTGGCTGCAGCTTCAGGGGCCATGGCTGGAAGCAGCCCCTGCAGATCCCTCAGGC
CCCGAGGTGAGGGTTTGAGGGATGAGACCAGGTGATAGTGGGGGAGGGGTTACTTCCTTTGTTACCTAGCAAGTA
GGGCTATTTCCATCGGTATTTTAAATGTGGGGTCACAGATCTTTTGGGGAGGGTGTGCTTGGCAGGGGGCCTCTT
GGAGCCAAAGGGATGTGGTGTGAGTTGCGATTGGCTGGCACTCACACCCCCACCCCTCACCCACATCCAGATT
AAGTCAGGAAGGCAGGTTTTATTTACAGGGCCCTTTTCAAGATGCCCTGGCAGCAGATTTCTGCAGGATGAGGGGT
AGCGGTGTGTAGGCAGTGAGGGGGAGGTTCCAGGGGCTGTCCACAGCCTGTCTTTTCCAGGCTGGGCTCCATCT
TCCAGTCCCAAAACCCTCCTTACAGGGCCCAGAGGCTTGTGAGGAAGCCAGGTGGACCCAGCCTTAGAAGAGTG
GGCATGGGGGGCCCTGATATCTGGAGGGGGCGGGTTGGCCTCAGTCATCTTTGGAGCAGAAGGGCTGGGTCTTG
GGGCCACAGACCACAAGGCTCAGCCTCCCTACCCTGCTCCCTGGGGTGCTGCTGTCTTGGAGAGCACAGCTCTGG
TGAGACGGCCTGGGCAGGCCGAGGCTGAGAAACCAGGGAGGATAGAGGAGAAAAGGGCTTGGGCCCCAGCCCCA
GAAGATGCTGGACCCAGGTGGGAGACCCAACAGTGGGTGCAGTTTCTCAGTAGGGCTGGAGCCAATGGTGGGG
TGGCCCCGGCAGGCCTGGCTCCTCACATCCCAGGGGTTGGCTTCTGATTTGGGGCTTGGGCTCCAGGCACTGGCT
TCTCTTCTGTGTCTTAGCATTTGAGAGAAGAGGCCAGGGGCTTGTTCATGGATCCCTGGACCCAAGGCAGA
TGTCCAGGCTTTATCCTCCTGAGGATGAGGAGTCTGACCAGCCCAAATCTGCCCTGGCCGGCCTGACCGGGGCAA
GGCAGTCCAAGAGAGTTCAGTGAGGACCAGCTAGGCTCTCCAGGTGCAATGTGGGTGCAGGGCCCTCATGTCCC
CCTACCCCTGCCTGTGATGGAGTGTTCTGAGGGGCTTTGGCATTGTGCTGGAAGCACAGGGAGTTCCAAATGAGAG
GGAGCTTCTGTGGCTTGAGAGCCTCTGGGGCCTTGGCTGCCAGAGCACGAGGCAGGCCAGGACCTGGAGAGCCCA
GACCCTGTCTCCAGGAGGCCAGGAGGCCAGATGGGGGCTTGCCTGAAAGACTGGTCCCCTTGATCGCTGGAGGC
ATGTGGGTGGCAACCAGGGCTGGGCAGGGCTTAGGGTGTGTGGGCCAAACCCCCCTGGGGTTGGCAAAGCCGCT
GTCAGGCCTCCTGGTGGGGGGCCCTGGACACAGGGAGCAGACCTCTGCCTCATGGGGTAGGAGTGGCTGCCTCC
TGTGTTCTCTGGATTTCTTCTCCCAACAACCTACAACCCTGGACTTGCCTCCCCAGGCCTCTTGCCTGTAAATAGA
AGCCCGCAAACCTGTACAGATTTACAGAGGCATCGAGACTGGGCCCTGGGAGTTGCCATCTGAGAGCCGATGGCCC
CAGCATCCCCCAGGTGCCTGCCTGGCACCACAGTGACCTGGCCTCAGCGTGGCAAATGCATGTAAATATTTTC
GTAGGCAGCGTGGCTCCAGAGAGCCCCCTGAAGACAGTGTCCCTCCCTCCTGTGAGTCCTTTCTCCTGTACAGAA
CCTGCCTGGGGTGGGTGGGGTCTGCCATTCCCTCCCCAGGCCTTCCCTGCCCCCTTCTCTCCCCTGTAACTGT
TTATTAACCATACCTGCTCTGAGTTCATGGCCAAAACCTTAAATAAGAAAAACAAAAGAAAAAGACAGTGAAAA
AAGAGACCAAGGCGCCTGCCCCACTGCGGGTACTCTCCTGTTCCAGCCTTGTGAAGGAAGTGGTTTTGTTTTGT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTCTGTGCTGTGCCATTTATAAGAGGAA
ATAAAATTAAGCTGAAATG

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FIGURE 140

AGCCATGCCTTTCTTGGACATCCAGAAAAGGTTTCGGCCTTAACATAGATCGATGGTTGACAATCCAGAGTGGTGA
ACAGCCCTACAAGATGGCTGGTCGATGCCATGCTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTA
TACTCGGGCAGAGAAAGAGTGCAAGATAGAATATGATGATTTTCGTAGAGTGTTTGCTTCGGCAGAAAACGATGAG
ACGTGCAGGTACCATCAGGAAGCAGCGGGATAAGCTGATAAAGGAAGGAAAAGTACACCCCTCCACCTCACCACAT
TGGCAAGGGGGAGCCTCGGCCCTGAACAGAGCAGCTGCTGATGTCTGGAGGCTGATTTTCCTGTTCTCTGTTCTC
CACTGGAAAGGTTGTTTACGACAAACCTCCTTGTCAAAGTGTGTAAAAATAAAGGATTGCTCCATCCT

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FIGURE 141

GCTGAGCGGGCTTTGGACACCATGAACTTTGATGTGATTAAGGGAAAGCCAATCCGCATCATGTGGTCTCAGAGG
GATCCCTCTTTGAGAAAATCTGGTGTGGGAAACGTCTTCATCAAGAACCTGGACAAATCTATAGATAACAAGGCA
CTTTATGATACTTTTTCTGCTTTTGGAAACATACTGTCCTGCAAGGTGGTGTGTGATGAGAACGGCTCTAAGGGT
TATGCCCTTTGTCCACTTCGAGACCCAAGAGGCTGCCGACAAGGCCATCGAGAAGATGAATGGCATGCTCCTCAAT
GACCGCAAAGTATTTGTGGGCAGATTCAAGTCTCGCAAAGAGCGGGAAGCTGAGCTTGGAGCCAAAGCCAAGGAA
TTCACCAATGTTTATATCAAAAACCTTTGGGGAAGAGGTGGATGATGAGAGTCTGAAAGAGCTATTCAGTCAGTTT
GGTAAGACCCTAAGTGTCAAGGTGATGAGAGATCCCAATGGGAAATCCAAAGGCTTTGGCTTTGTGAGTTACGAA
AAACACGAGGATGCCAATAAGGCTGTGGAAGAGATGAATGGAAAAGAAATAAGTGGTAAAATCATATTTGTAGGC
CGTGACAAAAAGAAAGTAGAACGGCAGGCAGAGTTAAACCGGAAATTTGAACAGTTGAAACAGGAGAGAATTAGT
CGATATCAGGGGGTGAATCTCTACATTAAGAAGCTTGGATGACACTATTGATGATGAGAAATTAAGGAAAGAATTT
TCTCCTTTTGGATCAATTACAGTGCTAAGGTAATGCTGGAGGATGGAAGAAGCAAAGGGTTTGGCTTCGTCTGC
TTCTCATCTCCTGAAGAAGCAACCAAGCAGTCACTGAGATGAATGGACGCATTGTGGGCTCCAAGCCACTATAT
GTTGCCCTGGCCAGAGGAAGGAAGAGAGAAAGGCTCACCTGACCAACCAGTATATGCAACGAGTGGCTGGAATG
AGAGCACTTCCTGCCAATGCCATCTTAAATCAGTTCCAGCCTGCAGCGGGTGGCTACTTTGTGCCAGCAGTCCCA
CAGGCTCAGGGAAGGCCTCCATATTATACACCTAACCAGTTAGCACAGATGAGGCCTAATCCACGCTGGCAGCAA
GGTGGGAGACCTCAAGGCTTCCAAGGAATGCCAAGTGCTATACGCCAGTCTGGGCCTCGTCCAACCTCTTCGCCAT
CTGGCTCCAACCTGCTAATGCTCCGGCCTCTCGTGGCCTCCCTACTACCACTCAGAGAGTCGGGTCTGAGTGCCCCG
GACCGCTTGGCTATGGACTTTGGTGGGGCTGGTGCCGCCCAGCAAGGGCTGACTGACAGCTGCCAGTCTGGAGGC
GTTCCACAGCTGTGCAGAACTTAGCGCCACGCGCTGCTGTTGCTGCTGCTGCTCCCCGGGCTGTTGCCCCCTAC
AAATACGCCTCCAGTGTCGCGAGCCCTCATCCTGCCATACAGCCTCTGCAGGCACCCCAGCCTGCGGTCCATGTG
CAGGGGCAGGAGCCACTGACTGCCTCCATGCTGGCTGCAGCACCCCCCAGGAACAGAAGCAGATGCTGGGAGAA
CGTTTGTTCCTCACTCATCCAAACAATGCATTCAAATCTGGCTGGGAAGATCACGGGAATGCTGCTGGAGATAGAC
AACTCTGAGCTGCTGCACATGTTAGAGTCCCCGAGTCTCTCCGCTCCAAGGTGGATGAAGCTGTAGCAGTCTTA
CAGGCTCATCATGCCAAGAAAGAAAGCTGCCGAGAAGGATTCAAAGCCAAATAACCCCTTATGGAATTCAACTCA
AGGTTTGAAGACTTCCTAGCTTGTCTTATGGACCTCAACACCAAGGATTACAAATTGCAAATTTAATAGGTCATT
TTGTATCAAAGGTCAATTATGAAGCACCTAGAATTTTTCAATTATACGAATATGTTCTTTGGGTTCTGCTGTGG
CCCAGACAGTGTTAACTTTTTTTTTTATTGTGGGTTTTGATTTTTTCCCCCAGAAATTGGTTTTATTGATGTACC
CAAGTCTTACGTTTCCCAATAAAGAAAAAAATCTCCAT

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FIGURE 142

ACCAGGCAGCCTGCGTTTCGCCATGAAGCGACCCAAGGAGCCGAGCGGCTCCGACGGGGAGTCCGACGGACCCATC
GACGTGGGCCAAGAGGGCCAGCTGAGCCAGATGGCCAGGCCGCTGTCCACCCCCAGCTCTTCGCAGATGCAAGCC
AGGAAGAAACGCAGAGGGATCATAGAGAAACGGCGTCGAGACCCGCATCAACAGTAGCCTTTCTGAATTGCGACGC
TTGGTCCCCACTGCCTTTGAGAAACAGGGCTCTTCCAAGCTGGAGAAAGCCGAGGTCTTGCAGATGACGGTGGAT
CACTTGAAAATGCTCCATGCCACTGGTGGGACAGGATTCTTTGATGCCCCAGCCCTGGCAGTTGACTTCCGGAGC
ATTGGTTTTTCGGGAGTGCCTCACTGAGGTCATCAGGTACCTGGGGGTCTTGAAGGGCCCAGCAGCCGTGCAGAC
CCCGTCCGGATTGCGCTTCTCTCCACCTCAACAGCTACGCAGCCGAGATGGAGCCTTCGCCCACGCCCCTGGC
CCTTTGGCCTTCCTGCTGGCCCTGGTCTTTCTTCCATAGCTGTCCAGGGCTGCCAGCCCTGAGCAACCAGCTC
GCCATCCTGGGAAGAGTGCCAGCCCTGTCTCCCCGGTGTCTCTCTCTGCTTACCCCATCCAGCCCTCCGA
ACCGCTCCCCCTTCGCAGAGCCACAGGCATCATCCTGCCAGCCCGGAGGAATGTGCTGCCAGTCGAGGGGCATCT
TCCACCCGGAGGGCCCCGCCCTAGAGAGGCCAGCGACCCCTGTGCTGTGCCCCCAGCAGCAGGGCTGCCAGG
AGCAGCCACATCGCTCCCTCCTGCAGTCTTCTCCCCAACACCCCTGGTCTTACAGGGTCGGCTGCTTACGTG
GCTGTTCCACCCCCAACTCATCTCTCCAGGGCCAGCTGGGAGGCCAGCGGGAGCCATGCTCTACCACTCCTGG
GTCTCTGAAATCACTGAAATCGGGGCTTTCTGAGCTGCCCTTACCACCCCGCCCCAAGGAATAAGGAAGGTTT
TTTTACCAGGAGCCCCAAAAAGGGCACTGCCTTTTCTGCTTTGCTTCGTGGACTGGCTCATATGTGAAGGCACGT
TCTCCAGCCATCAGAGGCCCCCTCTCTCCAAACCATCTCTCCTTCTCACTGTTATCCAGCTTATCCACCCAG
CTCTCCTGGAGCTGTTCTGGTCTCAGAGGCTTGGTTCCATTCTCACCTGAACAGATGAGTCTGGGAGAGACCC
TCAGAGATCCGCCCAGACCCCTCTCTGCCCTCTGCACACCAGCAGCAGGCATGAACCTTGGGTCTGGGAAAAAG
CTTTAACCTGCAGGGCACCAGGACCCAAGGCAGGCTGTTCTTGGGGCGGTCAGACCCAGTCAGGAGCAATGAC
TGACTGGCTGCAGCCTTCCACGCCAAGAGGCTGGAACATAGTGTCTGCCTCGCTTCTGGAGATAGTAACCTGAG
CAGGGGCTACAAAGAGGTCTCTTGGGAACCTGTCTGCCCCCTTCCACCTGTCTTGGGCCACACCATCACACTG
AACCACAGGACAGACCCTTTCTCCACCACAGCCAAGGCCTGGAGACTGGGGGCCAGCAGAGCCTGCTCCACCC
TCCTCCCAGCAGCAGACACCCACCTCTCACTGACTAACAGGTCCCTGCACACAGCTGGCCTGGTAAACCCAGCT
GGGAGGTTTCTAGGCAGCAGCAAACTCTGTGACAGGGTGTCTCACACCAGGCCTTGGACAGCTCTCCAGACA
GGAGCCAGGGTTGAGCAATGGAGAGCCAGCCCCACGTCTTACAGTCGCCATCCTCCAGGCGTGTGGTCCCTCC
CCATTGGGTGCACAGTGCAGAGGGGCCGTGGCCCCATGTGATGGTGCAGAGAGGAACCTCTTGGGATTCAGCA
CCAGACGTCTGTGCTGCCTGGTTTGCATCCGGCTCACAGAGCCAGACTGCTGGAACAGCCAAGGACTGTGAGGC
TGGACAAAAATAACTGCAAGGAGGGGCAAGAGAAAGGATGATTCGAGGCACCTTGGCCCTTCAAGGTCATGCAGT
GGGTCGAGCGCCTGAGATCCTGTTTACCAGGACTCCACAGAGCTGGCTCTGCTCAGAAGCCATTTATTCCCCGG
CTCCACCTTAGGCCACTTTTTCTAACAGAGGAAACAAATGGTCCAGCAGTCGTTCCAGCAGAACAGCGGAGCCT
GGACTGACACCCAGTGGGACCAGTGTGGCACACCAAGTTGATAAAATGCAGAAACCTTCTGTACTCGTTGGTAA
ATATCTACTCCCCAAGTGACTCCAGGTGCCCCCACCCTGGCACTTCCCCCAGGACTCCTACGATCTGGTTA
CTGCCTGGCCGATCCAAGGCTGTGGAGTCCCAGAGCCAGCAGTTCACTGGTGTCTATTCCCACTGGTTAGATAC
TTCAGTTGTCACCCCTGGGAAGATTCTCCACCTCCTCCCTTTGATGGAACACCCCTCCCAGAGGCTGCATTGA
GGAGACTCCACAGACTGAAAAGTGAGTTTGCAGAAACCTTGGGGAAAAGGGCCCTTTCAAAGAAGTGGATAAGAG
GGAGGAGATCATTGAGTGACCCAGAAAGCTCTTTTGAAGACAGACTCCTCAAGGAGAGATAAAGAGGAAAGCA
CCTCTTTCATTTTTTAGTGTGAGCTAATTCCATCAGACTGCTGTCTCTCTGGACCCATCTGAGATGTGCAGTAGC
AAGGAGAGGGGGGATCATTTTAGAGAGTGGGTCAATTGGCAGGGAGTGCTCCGGAGGGAGGCAGAGGGGAGACTGT
GGTAGAAGGAAGACAGAACTCACACATGCTCCCAGGATTGGGGACAGGGACAGAGGAGGTAACAGAAGGCAAAGG
CCAGTTTCCCCGTTATCATGAAGGGGCCCCACTCAGGACAGGAACAAGGACAACCTCTCTCTCTCTCTCTCTC
CTGCTGCTCCTGGGATACCAGGTCACTGATGTAGTCTTGCAGTTTGGCAACTTCTAGCCTGAGAATCCCTAGTG
GGGCTGTGGGAAACACATTTCCACGTTGCAAGCATGCAACTCCAAAGAATCTGTGATGCCACTGAAATGAGATGG
GAATGATCCAGCTCTTTCAGCATCTTGGTTGAACTTGCTTTTATTGTCCCTGGGATATTGTGGAAGGAAAGGTGA
CTGTGTGATCTGATTCTGTGGTCAAGGACTTGCACTCTTGTGTTTCTATCCCCAAGCCTTCTGGTGTCTCCAAC
CTACCCCATTCATGGGTTGTTGCGGACATCCAATAAAGATTTTTTTAGTGCTTCTGGAAAAAAGGAAAAAACC

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FIGURE 143

MKRPKEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQMQARKKRRGIIEKRRRDRINSSLSELRRRLVPTAFE
KQGSSKLEKAEVLQMTVDHLKMLHATGGTGFFDARALAVDFRSIGFRECLTEVIRYLGVLGEPSSRADPVRI RLL
SHLNSYAAEMEPSPTPTGPLAFPAWPWSFFHSCPLPALSNQLAILGRVPSFVLPGVSSPAYPIPALRTAPL RRA
TGIILPARRNVLESRGASSTRRARPLERPATVPVPVAPSSRAARSSHIAPLLQSSSPTPPGPTGSAAYVAVPTPNS
SSPGPAGRPAGAMLYHSWVSEITEIGAF

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FIGURE 144

GATCCTAAATTGCAGCAAGGCTACAATGCTATGGGATTCTCCCAGGGAGGCCAATTTCTGAGGGCAGTGGCTCAG
AGATGCCCTTCACCTCCCATGATCAATCTGATCTCGGTTGGGGGACAACATCAAGGTGTTTTTGGACTCCCTCGA
TGCCAGGAGAGAGCTCTCACATCTGTGACTTCATCCGAAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTT
CAGGAACGCCTCGTGCAAGCCGAATACTGGCATGACCCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTC
TTGGCAGATATAAATCAGGAGCGGGGTATCAATGAGTCCTACAAGAAAAACCTGATGGCCCTGAAGAAGTTTGTG
ATGGTGAAATTCCTCAATGATTCCATTGTGGACCCTGTAGATTTCGGAGTGGTTTGGATTTTACAGAAGTGGCCAA
GCCAAGGAAACCATTCCCTTACAGGAGACCTCCCTGTACACACAGGACCGCCTGGGGCTAAAGGAAATGGACAAT
GCAGGACAGCTAGTGTCTTGGCTACAGAAGGGGACCATCTTCAGTTGTCTGAAGAATGGTTTTATGCCACATC
ATACCATTCCCTTGGATGAAACCCGTATAGTTCACAATAGAGCTCAGGGAGCCCCCTAACTCTTCCAAACCACATGG
GAGACAGTTTTCTTCATGCCCAAGCCTGAGCTCAGATCCAGCTTGCAACTAATCCTTCTATCATCTAACATGCCC
TACTTGGAAGATCTAAGATCTGAATCTTATCCTTTGCCATCTTCTGTTACCATATGGTGTGAATGCAAGTTTA
ATTACCATGGAGATTGTTTTACAACTTTTGATGTGGTCAAGTTCAGTTTTAGAAAAGGGAGTCTGTTCCAGATC
AGTGCCAGAACTGTGCCCAGGCCCAAAGGAGACAATACTAAAGTAGTGAGATAGATTCTAAGGGCAAACATTT
TTCCAAGTCTTGCCATATTTCAAGCAAAGAGGTGCCCAGGCCTGAGGTACTCACATAAATGCTTTGTTTTGCTGG
TGATTTAACCAGTGCTTGGA AAAATCTTGCTTGGCTATTTCTGCATCATTTCTTAAGGCTGCCTTCCTCTCTCAG
TACGTTGCCCTCTGTGCTATCATCTTATCATCAATTATTAGACAAATCCCACTGGCCTACAGTCTTGCTTCTGCA
GCACCCACTTTGTCTCCTCAGGTAGTGATGAATTAGTTGCTGTACAAAAGGAGGGAAGTAGCACCCAAATTAAG
TTGCTTAAGAGAGGAAATGTACATCTTGTATAACTTAGGGAGCGAAGAAAATGTAGGCGCGAAAGTGAAAAGTGA
GGCAGCTAGTTCTTCTTATTCCATTCTCGACCAACCTGCCCTTTCTTAATATGACTAGTGGTCTTGATGCTAGAG
TCAACTTACTCTGTTGCTGGCTTTAGCAGAGAATAGGAGGAACCATATGAAAAAGATCAGGCTTTCTGACTTCCA
TCCCCAAAACACATTTACCAGCATACTCCAACTGTTTCTGATGTGTTCCATGAGAAAAGGATTGTTTGCTCAAA
AAGCTTGGA AAAATACTACACACTCCCTTTCTCCTTCTGGAGATCAACCCACATTAGAGTGTCTAAGGACTCCTGA
GAATTCCTGTTACAGTAAACAAAATAACGTAATCTACCATTTCTTACACTATTTGAGCATGGAAATCATAGTCC
CCACTCTGTGAAAACCTTAACGCTTTTTGGAAGACATTTCTGTAGCATGTCAGTTTGGAGAAATGATGAGCTACGC
CTTGATGAAAGAACC GTTGGTGCTGCTAAGTTTAGCCATTATGGTTTTCTTTCTCTCTCTTAAGCCTTATT
CTTCAACTAAAAGATGAGGATTAAGAGCAAGAAGTTGGGGGGGATGTGAAAATAATTTTATGAGGTTGTCTAAAA

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FIGURE 145

GGGTCGCGCGGAGATTGCTGGGCGGTTCTTGCCGGAAGCGGAGAGCGGCTGATCGCAGTCCGGAGGTGAGGCGGA
ACTCTGAGGCAGATATCCTCCCTTTCTCCTCGGCTGCTGCTTACTTTGACAAGCCAGGCTAACATTGAAGGT
GGTCCATTATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCGCCTGGAGGCAGTATCTC
ATACCTCTGACATGCACCGTGGGTATGCAGACAGTCCTTCAAAAGCAGGAGCAGCTCCATATGTGCAGGCATTG
ACTCGCTGCTTGCTGGTCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGGAGACGTGCAGAAACATG
CGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGCTCTGTTGGTTACAGCTTCTCAGTGTCAACAGCCAGCAG
AAAATAAGCTTTCCGATTTGTTGGCACCCATCTCAGAGCAGATCAAAGAAGTGATAACCTTTTCGGGAGAAGAACC
GAGGCAGCAAGTTGTTTAATCACCTGTCAGCTGTCAGCGAAAGTATCCAGGCCCTGGGCTGGGTGGCTATGGCTC
CCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTTATACAAACCGAGTCTTCAAAGAGTACA
AAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGCTTATTTAAGTATATGGACAGAGCTGCAGGCTTACATTA
AGGAGTTCCATACCACCGGACTGGCCTGGAGCAAAACGGGGCCTGTGGCAAAAGAACTGAGCGGACTGCCATCTG
GACCTCTGCCCGATCAGGTCTCTCCCTCCACCATGCCCCCTCTCTCCCCAGTCTCTACCAGTTTATGCT
CATATGAGTCTGCTTCCCGCTCAGCACTGTTTCGCGCAGATTAATCAGGGGGAGAGCATTACACATGCCCTGAAAC
ATGTATCTGATGACATGAAGACTCACAAGAACCCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCCA
AACCATTCTCTGCACCTAAACCCCCAAACCAGCCCCATCCCCCAAACGAGCCACAAAGAAGGAGCCAGCTGTACTTG
AACTGGAGGGCAAGAAGTGGAGAGTGGAAAAATCAGGAAAATGTTTCCAACCTGGTGATTGAGGACACAGAGCTGA
AACAGGTGGCTTACATATACAAGTGTGTCAACACGACATTGCAAATCAAGGGCAAAATTAACCTCCATTACAGTAG
ATAACTGTAAGAACTTGGCCTGGTATTTCGATGACGTGGTGGGCATTGTGGAGATAATCAACAGTAAGGATGTCA
AAGTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGA
ATTCCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATGAATGTCCTCATTCTACAGAAGGCGGTGACT
TTAATGAATTCCAGTTCTTGAGCAGTTCAGACCCCTATGGAACGGGCAGAAGTTGGTCACCACAGTGACAGAAA
TTGCTGGATAAGCGAAGTGCCACTGGGTTCTTTGCCCTCCCTTCACACCATGGGATAAATCTGTATCAAGACGGT
TCTTTTCTAGATTTCTCTACCTTTTGTCTTTAAACTGCTTCTCTGCTCTGAGAAGCACAGCTACCTGCCTTC
ACTGAAATATACCTCAGGCTGAAATTTGGGGTGGGATAGCAGGTGAGTTGATCTTCTGCAGGAAGGTGCAGCTTT
TCCATATCAGCTCAACCACGCCGCCAGTCCATTCTTAAGGAAGTCCGACTAGGACTGATGATGCATTTTAGCTT
TGAGCTTTTGGGGGTTATTCTACCAACAAACAGTCCATTGGAAAGAAAACAGTCCCTGGAATTAACAGATCAGAA
TGTTCACTGTTAATCTTTTTTTAACAATGAGCATGAAGGTAGCAGAAGCTGGTGTGTTTCCAGATGGTTCTT
CTAACCAAATAATTTTTTCACTGTTGACAAGCGAGGCAAGGGTTGCACTGGACCAAAGGCTGAGGCTTGGCCATC
TAGCATTCCATACAAAATTGTTTCTATAAGCATTCCTTTTATTCTCTATTCTATCCTGGGTCTGCCTCAACCGT
GAGATAGGAGAGTCTCTGGTACTAGCTGCTGTAGCAGTGCCCTTCATCCAGGGCAGTTAATGGAGTCTTGGACCC
TTTCTTTCTCTGGGATCCCTGCCAGCACCTTCTTATAGAGATGACTTTAAAGGAAAAAAAAAAAAAAAAAAC
CCACATGATTTCAAGGAGTCTGGCATTCTGAATCCTTCTTCCCTGCCAGGTGCCTGTCACCTGTCTTCACTGCC
TCCTTTTCCCTGTCATGCTCATCAGCTTATGGCTTCTGTCTAAGCACCTGAACAGAGGACTGAAACCTCCACTGC
AGGCTGGTTTTAGGTCTTGAATTATGTAAGAATCTTGACAGCACTGCTAATGTAAATTTTCACTTGTTTTTCCCT
CTAGGACAAACACTTACCAAAATATGCAACTTTTTTTTGGTGGGAAGAGAGATTGTCCTGTGATTTTACCCATT
TCCTGAGGCCTGTGGAAATAAACCTTTATGTACTTAAAGTTATACAGAAAATAGAATAAAGTTAATACCAAACTT
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FIGURE 146

GGCTTCGGTCGCTACCGCTCCCGCTCTGCCACCCCGCCAACCGCCGCTCGGGCCTCCGTCGCTGCCGCGTCGCT
TTCTCGCTCCTTGGATCGCACATCCTCCAGATGCAGCGCCGGGACGACCCCGCCGCGCGCATGAGCCGGTCTTC
GGGCCGTAGCGGCTCCATGGACCCCTCCGGTGCCACCCCTCGGTGCGTCAGACGCCGTCTCGGCAGCCGCCGCT
GCCTCACCGGTCCCGGGGAGGCGGAGGGGGATCCCGCGGGGGCGCCCGGGCCTCGCCCGCCACGCAGCCGCCACC
GCTGCTGCCGCCCTCGGCCACGGGTCCCGACGCGACAGTGGGCGGGCCAGCGCCGACCCCGCTGCTGCCCCCTC
GGCCACAGCCTCGGTCAAGATGGAGCCAGAGAACAAGTACCTGCCGAACATCATGGCCGAGAAGGACTCGCTCGA
CCCGTCCTTCACTCACGCCATGCAGCTGCTGACGGCAGAAATTGAGAAGATTCAGAAAGGAGACTCAAAAAAGGA
TGATGAGGAGAATTACTTGGATTTATTTTCTCATAAGAACATGAACTGAAAGAGCGAGTGCTGATACCTGTCAA
GCAGTATCCCAAGTTCAATTTTGTGGGGAAGATTCTTGGACCACAAGGGAATACAATCAAAAGACTGCAGGAAGA
GACTGGTGCAAAGATCTCTGTATTGGGAAAGGGCTCAATGAGAGACAAAGCCAAGGAGGAAGAGCTGCGCAAAGG
TGGAGACCCCAAATATGCCCACTTGAATATGGATCTGCATGTCTTCATTGAAGTCTTTGACCCCATGTGAGGC
TTATGCTCTTATGGCCCATGCCATGGAGGAAGTCAAGAAATTTCTAGTACCGGATATGATGGATGATATCTGTCA
GGAGCAATTTCTAGAGCTGTCTACTTGAATGGAGTACCTGAACCCCTCTCGTGACGTGGGGTGCCAGTGAGAGG
CCGGGGAGCTGCACCTCTCCACCACCTGTTCCAGGGGCCGTGGTGTGGACCACCTCGGGGGGCTTTGGTACG
TGGTACACCAGTAAGGGGAGCCATCACCAGAGGTGCCACTGTGACTCGAGGCGTGCCACCCCCACCTACTGTGAG
GGGTGCTCCAGCACCAAGAGCACGGACAGCGGCATCCAGAGGATACCTTTGCCTCCACCTCCTGCACCAGAAAC
ATATGAAGAAATATGGATATGATGATACATACGCAGAACAAAGTTACGAAGGCTACGAAGGCTATTACAGCCAGAG
TCAAGGGGACTCAGAATATTATGACTATGGACATGGGGAGGTTCAAGATTCTTATGAAGCTTATGGCCAGGACGA
CTGGAATGGGACCAGGCCGTGCTGAAGGCCCTCCTGCTAGGCCAGTGAAGGGAGCATACAGAGAGCACCCATA
TGGACGTTATTAACAAACATGAGGGGAAAATATCAGTTATGAGCAAAGTTGTTACTGATTTCTTGTATCTCC
CAGGATTCTGTGCTTTACCCACAACAGACAAGTAATTGTCTAAGTGTFTTTCTTCGTGGTCCCTTCTTCTCC
CCACCTTATTCCATTCTTAACTCTGCATTCTGGCTTCTGTATGTAGTATTTTAAATGAGTTAAATAGATTTAG
GAATATTGAATTAATTTTTTAAGTGTGTAGATGCTTTTTTCTTTGTTGTTTAAATATAAACAGAAGTGTACCTTT
TATAATAAAAAAAGAAGTTGAGTAAAAAACAACACACAAACCTGTTAGTTTCAAAAATGACATTGCTTGCT
TAAAGGTTCTGAAGTAAAGGCTTGTTAAGTTTCTCTTAGTTTGTGATTGAGGCATCCCGTAAAGTTGTAGTTGCA
GAATCCCAAACTAGGCTACATTTCAAATTCAGGGCTGTTTAAAGATTTAAATCACAACATTAACGGCAGTAGG
CACCACCATGTAAAAGTGAGCTCAGACGTCTCTAAAAAATGTTTCCCTTTATAAAAGCACATGGCGGTTGAATCTT
AAGGTTAAATTTTAATATGAAAGATCCTCATGAATTAATAGTTGATGCAATTTTAAACGTTAATTGATATAAAA
AAAAAACAACAAAATTAGGCTTGTAAAACTGACTTTTTTCAATTACGTGGGTTTTGAAATCTAGCCCCAGACATAC
TGTGTTGAGAGATACTTAGAGGGAGGGAGTAGGTTTTGAAGAGGTTGATGGTGGTGGGGAGGGAAGGCCTCCTGA
ATTGAGTTTGATGCAGAGCTTTTTAGCATGAAGAATCTTTCAGTCATAGTACTAATAATTAATTTTCAGTATT
TAAAAAGACAAAGTATTTTGTCCATTTGAGATTCTGCACTCCATGAAAAGTTCACCTGGACGCTGGGGCCAAAAG
CTGTTGATTTTCTTAAGTTGACGGTTGTCAATATATCGAACTGTTCCCAAGTTAGTCAAGTATGTCTCAACACTA
GCATGATATAAAAAGGGACACTGCAGCTGAATGAAAAGGAATCAAAATCCACTTTGTACATAAGTTAAAGTCCT
AATTGGATTTGTACCGTCCTCCATTTTGTCTCGGAAGATTAAATGCTACATGTGTAAGTCTGCCTAAATAGGT
AGCTTAACTTATGTCAAATGTCTGCAGCAGTTTGTCAATAAAGTTTAGTCCTTTTTTA

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FIGURE 147

MQRRDDPAARMSRSSGRSGSMDPSGAHPSVRQTPSRQPPLPHRSRGGGGSRGGARASPATQPPPLLPPSATGPD
ATVGGPAPTPLLPPSATASVKMEPENKYLPELMAEKDSLDPSTHAMQLLTAEIEKIQKGDSKKDDEENYLDLFS
HKNMKLKERVLPVKQYPKFNFVGKILGPQGNTIKRLQEETGAKISVLGKGSMRDKAKEEELRKGGDPKYAHLNM
DLHVFIEVFGPPCEAYALMAHAMEEVKKFLVPDMMDDICQEQFLELSYLNQVPEPSRGRGVFVRGRGAAPPPPV
PRGRGVGPPRGALVRGTPVRGAI TRGATVTRGVPPPPTVRGAPAPRARTAGIQRIPLPPPPAPETYEEYGYDDTY
AEQSYEGYEGYYSQSQGDSEYYDYGHGEVQDSYEAYGQDDWNGTRPSLKAPPARPVKGAYREHPYGRY

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FIGURE 148

CTCGCGTCACAGCCGGGATGAAGCCGATCCTACTGCAGGGCCATGAGCGGTCCATTACGCAGATTAAGTATAACC
GCGAAGGAGACCTCCTCTTTACTGTGGCCAAGGACCCTATCGTCAATGTATGGTACTCTGTGAATGGTGAGAGGC
TGGGCACCTACATGGGCCATACCGGAGCTGTGTGGTGTGTGGACGCTGACTGGGACACCAAGCATGTCCTCACTG
GCTCAGCTGACAACAGCTGTCTGTCTGTGGGACTGTGAAACAGGAAAGCAGCTGGCCCTTCTCAAGACCAATTCCG
CTGTCCGGACCTGCGGTTTTGACCTTTGGGGGCAACATCATCATGTTCTCCACGGACAAGCAGATGGGCTACCAGT
GCTTTGTGAGCTTTTTTGACCTGCGGGATCCGAGCCAGATTGACAACAATGAGCCCTACATGAAGATCCCTTGCA
ATGACTCTAAAATCACCAGTGCTGTTTGGGGACCCCTGGGGGAGTGCATCATCGCTGGCCATGAGAGTGGAGAGC
TCAACCAGTATAGTGCCAAGTCTGGAGAGGTGTTGGTGAATGTTAAGGAGCACTCCCGGCAGATCAACGACATCC
AGTTATCCAGGGACATGACCATGTTTGTGACCGCGTCCAAGGACAACACAGCCAAGCTTTTTGACTCCACAACCTC
TTGAACATCAGAAGACTTTCCGGACAGAACGTCTGTCAACTCAGCTGCCCTCTCCCCAACTATGACCATGTGG
TCCTGGGCGGTGGTCAGGAAGCCATGGATGTAACCACAACCTCCACCAGGATTGGCAAGTTTGAGGCCAGGTTCT
TCCATTGGCCCTTTGAAGAAGAGTTTGAAGAGTCAAGGGTCACTTTGGACCTATCAACAGTGTTGCCTTCCATC
CTGATGGCAAGAGCTACAGCAGCGGCGGCGAAGATGGTTACGTCCGTATCCATTACTTCGACCCACAGTACTTTG
AATTTGAGTTTGAGGCTTAAGAAGCTGGATCTCCTGCCGGGCGTGGTTGGCTCATGCCTGTAATCCCACCACCTT
TTTTTTAAGGCAGGCGGATCACCTGAGGTCAGGAGTTTAAGACCAGCCTGACCAACATGGAGAAACCTCGTCTCT
ACTAAAAATACAAAATTAGCCAGGCATGGTGGCACACGCCTATAGTCCCAGCTACTCAGGAGGCTGAGGCAGGA
GAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCACGTCATTGCACTCCATCCTGAGCCACAAG
AGCAAACTCCGTCTCAAAAAAAAAAAGAAGAAGGTGGATCTCCAACCAGGCCAGAGAAGATTCTCACAGAAGG
TTTTGAACTCTAAGAAATAAATTGGTTTGGTAATAAATGGCTTCTGGTCAGA

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FIGURE 149

MKPILLQGHERSITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTYMGHTGAVWCVDADWDTKHVLTGSADNS
CRLWDCETGKQLALLKTNSAVRTC GFDFGGNIIMFSTDKQMGYQCFVSFFDLRDPSQIDNNEPYMKIPCND SKIT
SAVWGPLGECIIAGHESGELNQYSAKSGEVLVNVKEHSRQINDIQLSRDMTMFVTASKDNTAKLFDSTTLEHQKT
FRTERPVNSAALSPNYDHVVLGGGQEAMDVTTTSTRIGKFEARFFHLAFEEEFGRVKGHFGPINSVAFHPDGKSY
SSGGEDGYVRIHYFDPQYFEFEFEA

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FIGURE 150

GAGCGGAGCCGCGGGCGGGAGGGCGGACGGACCGACTGACGGTAGGGACGGGAGGCGAGCAAGATCGCGCAGACG
CAGGGCACCCGGAGGAAAGTCTGTTACTACTACGACGGGGATGTTGGAAATTACTATTATGGACAAGGCCACCCA
ATGAAGCCTCACCGAATCCGCATGACTCATAATTTGCTGCTCAACTATGGTCTCTACCGAAAAATGGAAATCTAT
CGCCCTCACAAAGCCAATGCTGAGGAGATGACCAAGTACCACAGCGATGACTACATTAAATTCTTGCGCTCCATC
CGTCCAGATAACATGTCGGAGTACAGCAAGCAGATGCAGAGATTCAACGTTGGTGAGGACTGTCCAGTATTTCGAT
GGCCTGTTTGAGTTCTGTCAGTTGTCTACTGGTGGTTCTGTGGCAAGTGCTGTGAACTTAATAAGCAGCAGACG
GACATCGCTGTGAATTGGGCTGGGGCCTGCACCATGCAAAGAAGTCCGAGGCATCTGGCTTCTGTTACGTCAAT
GATATCGTCTTGCCATCCTGGAAGTATCAAGTATCACCAGAGGGTGCTGTACATTGACATTGATATTCACCAT
GGTGACGGCGTGGAAGAGGCCTTCTACACCACGGACCGGGTTCATGACTGTGTCCTTTTCATAAGTATGGAGAGTAC
TTCCAGGAACTGGGGACCTACGGGATATCGGGGCTGGCAAAGGCAAGTATTATGCTGTTAACTACCCGCTCCGA
GACGGGATTGATGACGAGTCTATGAGGCCATTTTCAAGCCGGTCATGTCCAAAGTAATGGAGATGTTCCAGCCT
AGTGCGGTGGTCTTACAGTGTGGCTCAGACTCCCTATCTGGGGATCGGTTAGGTTGCTTCAATCTAACTATCAAA
GGACACGCCAAGTGTGTGGAATTTGTCAAGAGCTTTAACCTGCCTATGCTGATGCTGGGAGGCGGTGGTTACACC
ATTTCGTAACGTTGCCCCTGCTGGACATATGAGACAGCTGTGGCCCTGGATACGGAGATCCCTAATGAGCTTCCA
TACAATGACTACTTTGAATACTTTGGACCAGATTTCAAGCTCCACATCAGTCCTTCCAATATGACTAACCAGAAC
ACGAATGAGTACCTGGAGAAGATCAAACAGCGACTGTTTGAGAACCTTAGAATGCTGCCGCACGCACCTGGGGTC
CAAAATGCAGGCGATTCTGAGGACGCCATCCCTGAGGAGAGTGGCGATGAGGACGAAGACGACCCTGACAAGCGC
ATCTCGATCTGCTCCTCTGACAAACGAATTGCCTGTGAGGAAGAGTTCTCCGATTCTGAAGAGGAGGGAGAGGGG
GGCCGCAAGAAGCTTTCCAAGTTCAAAAAGCCAAGAGAGTCAAAACAGAGGATGAAAAAGAGAAAGACCCAGAG
GAGAAGAAAGAAGTCACCGAAGAGGAGAAAACCAAGGAGGAGAAGCCAGAAGCCAAAGGGGTCAAGGAGGAGGTC
AAGTTGGCCTGAATGACCTCTCCAGCTCTGGCTTCTGCTGAGTCCCTCACGTTTCTTCCCCAACCCCTCAGAT
TTTATATTTTCTATTTCTCTGTGTTTTATATAAAAAATTTATTAAATATAAATATCCCCAGGGACAGAAACCAAG
GCCCCGAGCTCAGGGCAGCTGTGCTGGGTGAGCTCTTCCAGGAGCCACCTTGCCACCCATTCTTCCCGTTCTTAA
CTTTGAACCATAAAGGGTGCCAGGTCTGGGTGAAAGGGATACTTTTATGCAACCATAAGACAAACTCCTGAAATG
CCAAGTGCCTGCTTAGTAGCTTTGGAAAGGTGCCCTTATTGAACATTCTAGAAGGGGTGGCTGGGTCTTCAAGGA
TCTCCTGTTTTTTTTCAGGCTCCTAAAGTAACATCAGCCATTTTATAGATTGGTTCTGTTTTCTGTACCTTCCCACTG
GCCTCAAGTGAGCCAAGAAACACTGCCTGCCCTCTGTCTGTCTTCTCCTAATTCTGCAGGTGGAGGTTGCTAGTC
TAGTTTCCTTTTGTAGATACTATTTTCATTTTGTGAGCCTCTTTGTAATAAAATGGTACATTTCT

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FIGURE 151

MAQTQGTRRKVCYYYDGDVGNYYYGQGHMPKPHRIRMTHNLLNLYGLYRKMEIYRPHKANAEEMTKYHSDDYIKF
LRSIRPDNMSEYSKQMQRFNVEDCPVFDGLFEFCQLSTGGSVASAVKLNKQQTDIAVNWAGGLHHAKKSEASGF
CYVNDIVLAILELLKYHQRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVN
YPLRDGIDDESIEAIFKPVMSKVMEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKGHAKCVEFVKSFNLPMLMLGG
GGYTIRNVARCWTYETAVALDTEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNTNEYLEKIKQRLFENLRMLPH
APGVQMQAIPEDAIPEESGDEDEDDPKRISICSSDKRIACEEEFSDSEEEGEGGRKNSSNFKKAKRVKTEDEKE
KDFEEKKEVTEEEKTKEEKPEAKGVKEEVKLA

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FIGURE 152

GGCACGAGGGCGCGGAGCGGAGCGGGCGGCGGGCGCAGCTAGCGGGTCGGCCGCGGAGCGGAGGTGCAGCTCGGCT
TCCCCGGCACCCCTCCCCCTCGGGCGCCAGCCCCACCCCTCCGCCGGCCGGGCGGACCCCGCCGTACTATCCCC
TGCGGGCGGAGCCCCGGGGCGGCTCCAAGCGCCCCCAGCAGACCCCATCATCGGCCAGCCAGAGCTCCAAGGCTC
CCCGGGGCGACGTGACCGCCGAGGAGGCAGCAGGCGCTTCCCCCGGAAGGCCAACGGCCAGGAGAATGGCCACG
TGAAAAGCAATGGAGACTTATCCCCCAAGGGTGAAGGGGAGTCGCCCCCTGTGAACGGAACAGATGAGGCAGCCG
GGGCCACTGGCGATGCCATCGAGCCAGCACCCCTAGCCAGGGTGCTGAGGCCAAGGGGGAGGTCCCCCCAAGG
AGACCCCAAGAAGAAGAAGAAATTCTCTTTCAAGAAGCCTTTCAAATTGAGCGGCCTGTCCTTCAAGAGAAATC
GGAAGGAGGGTGGGGGTGATTCTTCTGCCTCCTCACCCACAGAGGAAGAGCAGGAGCAGGGGGAGATCGGTGCCT
GCAGCGACGAGGGCACTGCTCAGGAAGGGAAGGCCGCGAGCCACCCCTGAGAGCCAGGAACCCAGGCCAAGGGGG
CAGAGGCTAGTGACGCTCAGAAGAAGAGGCAGGGCCCCAGGCTACAGAGCCATCCACTCCCTCGGGGCGGAGA
GTGGCCCTACACCAGCCAGCGCTGAGCAGAATGAGTAGCTAGGTAGGGGCAGGTGGGTGATCTCTAAGCTGCAAA
AACTGTGCTGTCTTGTGAGGTCAGTGCCTGGACCTGGTGCCCTGGCTGCCTTCCCTGTGCCAGAAAGGAAGGGG
CTATTGCCTCCTCCAGCCACGTTCCCTTTCCCTCCTCCTCCTCCTGTGGATTCTCCCATCAGCCATCTGGTTCTC
CTCTTAAGGCCAGTTGAAGATGGTCCCTTACAGCTTCCCAAGTTAGGTTAGTGATGTGAAATGCTCCTGTCCCTG
GCCCTACCTCCTTCCCTGTCCCCACCCCTGCATAAGGCAGTTGTTGGTTTTCTTCCCAATTCTTTTCCAAGTAG
GTTTTGTTTACCCTACTCCCCAAATCCCTGAGCCAGAAGTGGGGTGCTTATACTCCCAAACCTTGAGTGTCCAGC
CTTCCCCTGTTGTTTTTAGTCTCTTGTGCTGTGCCTAGTGGCACCTGGGCTGGGGAGGACACTGCCCGTCTAGG
TTTTTATAAATGTCTTACTCAAGTTCAAACCTCCAGCCTGTGAATCAACTGTGTCTCTTTTTTGAAGTGGTAAGC
AAGTATTAGGCTTTGGGGTGGGGGAGGTCTGTAATGTGAAACAACCTTCTGTCTTTTTTCTCCCACTGTTGTA
AATAACTTTTAAATGGCCAAACCCAGATTTGTACTTTTTTTTTTTCTAACTGCTAAAACCATCTCTTCCACCT
GGTTTTACTGTAAACATTTGGAAAAGGAATAAATGTCGTCCCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 153

MGSQSSKAPRGDVTAEAAAGASPAKANGQENGHVKSNGDLSPKGEGESPPVNGTDEAAGATGDAIEPAPPSQGAE
AKGEVPPKETPKKKKKFSFKKPKLSGLSFKRNRKEGGDSSASSPTEEEQEQGEIGACSDGTAQEGKAAATPE
SQEPQAKGAEASAASEEEAGPQATEPSTPSGPESGPTPASAEQNE

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FIGURE 154

GCTCCCATTGGCTGATGTTGGCGCGAAGGTGCGCGAGTCAGCCCTCGCGCTGGGGGCGCAGGAAACAATAGAGGC
CGCGCGCACAGAGCGAGCTCTTGCAGCCTCCCCGCCCCCTCCCGCAACGCTCGACCCCAGGATTCCCCCGGCTCGC
CTGCCCCGCCATGGCCGACAAGGAAGCAGCCTTCGACGACGCAGTGGAAGAACGAGTGATCAACGAGGAATACAAA
ATATGGAAAAAGAACACCCCTTTTCTTTATGATTTGGTGATGACCCATGCTCTGGAGTGGCCAGCCTAACTGCC
CAGTGGCTTCCAGATGTAACCAGAATTTGGAGGTTTTGGTTCAGTTAGTGGAATAATTGAAATAGAAATCAAGAT
CAACCATGAAGGAGAAGTAAACAGGGCCCCGTTATATGCCCCAGAACCCTTGTATCATCGCAACAAAGACTCCTTC
CAGTGATGTTCTTGTTTTTGACTATACAAAACATCCTTCTAAACCAGATCCTTCTGGAGAGTGCAACCCAGACTT
GCGTCTCCGTGGACATCAGAAGGAAGGCTATGGGCTTTCTTGGAACCCAAATCTCAGTGGGCACTTACTTAGTGC
TTCAGATGACCATAACCATCTGCCTGTGGGACATCAGTGCCGTTCCAAAGGAGGGAAAAGTGGTAGATGCGAAGAC
CATCTTTACAGGGCATACGGCAGTAGTAGAAGATGTTTCCCTGGCATCTACTCCATGAGTCTCTGTTTGGGTCAGT
TGCTGATGATCAGAACTTATGATTTGGGATACTCGTTCAAACAATACTTCCAAACCAAGCCACTCAGTTGATGC
TCACACTGCTGAAGTGAAGTGCCTTTCTTTCAATCCTTATAGTGAGTTCATTCTTGCCACAGGATCAGCTGACAA
GACTGTTGCCTTGTGGGATCTGAGAAATCTGAAACTTAAGTTGCATTCTTTGAGTCACATAAGGATGAAATATT
CCAGGTTTCAGTGGTCACCTCACAATGAGACTATTTTAGCTTCCAGTGGTACTGATCGCAGACTGAATGCTCTGGGA
TTTAAGTAAAATTGGAGAGGAACAATCCCCAGAAGATGCAGAAGACGGGCCACCAGAGTTGTTGTTTATTTCATGG
TGGTCATACTGCCAAGATATCTGATTTCTCCTGGAATCCCAATGAACCTTGGGTGATTTGTTCTGTATCAGAAGA
CAATATCATGCAAGTGTGGCAAATGGAGTTAGTCCTTGACCACTAGTTTGATGCCATCTCCATTTTGGGTGACCT
GTTTCACCAGCAGGCCTGTTACTCTCCATGACTAACTGTGTAAGTGCTTAAAATGGAATAAATTGCTTTTCTACA
TAA

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FIGURE 155A

GGCTCGCATCCCCATAGTGCTGGGTTACAGTGAAGGTACGCCCCGCGCTCTGCTCTGGAGAGGCAGGGTGGGATA
GGGAACGTCTCGAGTGGCGCCCGCAGTCAATCGTGGTGTTCGTTGGCCGCCGCTCCCGGCGCTCCTAGGGCTGTT
TAAGAAGAAGGGCTCTGCCAAGGCTGAGAATGACAAACATCTAAGTGTAGGGCCTGGCCAGGGGCCAGGGTCTGC
AGTGGATGAGCACCAGGACAACGTCTTCTTTCCAGTGGGCGACCCCCCACCTGGAAGAGCTGCACACTCAGGC
CCAGGAGGGGCTCCGCTCCCTACAAACCAAGAGAAACAGAACTGAACAAGGGTGGCTGGGACCATGGAGACAC
CCAGAGTATCCAGTCTCCCGGACGGGGCCGGATGAAGACAACATCTCCTTCTGCAGTCAGACCACATCCTACGT
GGCTGAGAGCTCCACAGCAGAGGACGCGCTCTCCATCCGCTCGGAGATGATCCAGCGCAAAGGCTCCACCTTCCG
ACCCCATGACTCATTTCCCAAATCTGGAAAGTCAGGGCGGCGTGGCGGGAGCGGCGGAGCACTGTGCTGGGACT
CCCGCAGCATGTGCAGAAGGAGCTTGGCCTGAGGAATGAGCGTGAGGCACCAGGCACGCCCCGGGCTCCTGGTGC
ACGGGATGCCGTACGCATCCCCACAGTGGACGGCCGCCCGGAGGCACCTCAGGGATGGGGGGCCGGGTGTCCTT
GCAGGCGCTGGAGGCGGAGGCGGAGGCTGGCGCTGAGACAGAGGCCATGCTGCAGCGCCACATTGACCGTGTCTA
CCGGGATGACACCTTTGTTGGCCGGTCCACGGGTACCCGGGCCCCACCATTGACCCGGGCCATGTCCCTAGCAGT
GCCTGGATTGACAGGAGGGGCGAGGGCCTGCAGAGCCCTGAGCCCGGCCATGTCCATCTCCCCCAGGCCACCTA
CCTGTGCAAGTTGATTCCACATGCTGTGCTGCCGCTACAGTGGACGTGGTGGCCCTAGGCCGCTGCAGCCTGCG
CACACTAAGCCGCTGCAGCCTGCACTCGGCCAGCCAGCCTCAGTCCGCTCGCTGGGGCGCTTCTCCTCCGTCTC
CAGCCACAGCCCCGAGCCGCCACCCATCTCCTCCAGTGACACCTGGAGCCACTCTCAATCCTCCGACACCAT
TGTGTCTGACGGTTCCACCTCTCCTCTAAGGGTGGCTCTGAGGGCCAGCCGAGAGCTCTACGGCTAGCAATAG
CGTGGTACCCCTCCCGAGGAGGAGTGGGAGGGGCTCTCCAGTGGGGGAGCACTGCTGAGGCCTCAGACAC
ACTCAGCATTTCGAGCAGTGGGCAGTTGTCTGGCCGGAGTGTGTCCCTGCGTAAGCTGAAGCGGCCTCCACCCCC
TCCCCGCCGGACCCACTCCCTCCATCAGCGGGGCTTAGCAGTGCCTGATGGGCCATTAGGGTTGCCCCCTAAGCC
TGAGCGTAAGCAGCAGCCCCAGCTGCCTCGGCCACCCACCCTGGTGGCTCAGAAGGGGCGGGGGCAGCACCTG
TCCACCCAACCCAGCCAACAGCTGGGTACCTGGCTTGTCTCCGGGTGGTTCCCGCGCCCCCCACGGTCCCCAGA
ACGGACACTTTTCGCCCTCCAGTGGATACTCGAGCCAAAGTGGTACTCCACCTCCCTCCCAAGGGCCTGGCAGG
TCCCCCTGCTTCCCCAGGCAAGGCCAGCCCCCTAAACCAGAGCGTGTACGTCTCTTCGCTCCCTGGGGCCTC
CGTCTCCTCTTCCCTCACGTCTTTATGTTCTCCTCCTCTGACCCAGCCCCCTCAGACCGCTCTGGGCCACAGAT
ATTGACCCCCCTGGGTGACAGGTTTGTCTACCTCCTCACCCCAAGGTGCCTGCCCTTCTCCCCACCTCCCTC
CAAGCCCAGGAGCCCTAACCAGCTGCCCCTGCTCTAGCCGCCCTGCTGTGGTTTCTGGGCCTGTTTCTACCAC
TGACGCCAGTCTCTCAGTCCCTCCCACTCCCCAGACAACCTTGACTCCACTGCAGGAGTCTCCTGTCTATCTCAA
AGACCAGTACCCCCACCTTCCCCACCCCCATCTTATCATCCACCCCCACCACCCACTAAGAAGCCAGAGGTGGT
TGTGGAGGCACCATCTGCCTCAGAGACTGCTGAGGAGCCCTCCAAGATCCCAACTGGCCCCCTCCCCACCCCC
TGCCCCCTGAGGAGCAGGACCTGTCCATGGCTGACTTCCCCCACCAGAGGAGGCTTTTTTCTGTGGCCAGCCC
TGAGCCTGCAGGCCCTTCAGGCTCCCCAGAGCTTGTGAGCTCCCCGGCTGCTTCGTCTCCTCAGCTACTGCTTT
GCAGATTGAGCCCCCGGTAGCCAGACCTCCTCCAGCTCCGCCAGCCCCAGCTCCTGCTAGTTCCGCCCCAGG
GCATGTGGCCAAGCTCCCTCAGAAGGAACCGGTGGGCTGTAGCAAGGGTGGTGGGCCCTCCAGGGAGGACGTAGG
TGCGCCCCTGGTCACGCCCTCGCTCCTGCAGATGGTGGGCTGCGCTCCGTGGGTGCTCCAGGAGGGGCTCCAC
CCCAGCACTGGGGCCATCGGCCCCCCAGAAACCACTGCGAAGGGCCCTGTGAGGGCGGGCCAGCCAGTGCCTGC
CCCCCTCCTCAGGGCTCCATGCTGCGGTCCGACTCAAGGCCTGCAGCCTGGCCGCCAGTGAAGGCCTCTCAAGTGC
TCAGCCCAACGGACCGCCTGAGGCAGAGCCACGGCCTCCCCAGTCCCTGCCTCAACGGCCAGTTTCTCTCTC
CAAGGGCTCTAGGAAGCTGCAGCTGGAGCGGGCCCGTGTCCCCTGAGACCCAGGCTGACCTCCAGCGGAATCTGGT
GGCAGAACTCCGGAGCATCTCAGAGCAGCGGCCACCCAGGCCCCAAAGAAGTCACTAAGGCTCCCCACCTGT
GGCCCGCAAGCCGTCTGTGGGAGTCCCCCACCCGCTCCCCAGTTACCTCGAGCTGAGCCCCCTTACTGCTCC
TCCCACCAATGGGCTCCCTCACACCCAGGACAGGACTAAGAGGGAGCTGGCGGAGAATGGAGGTGTCTGCAGCT
GGTGGGGCCAGAGGAGAAGATGGGCCTCCCGGGCTCAGACTCACAGAAAGAGCTGGCCTGACCACCAGGCACCTC
ACTGGCACTGCTGACCATCCAGAAACACAATCTCAGGGACCCGAGCAGCTCCAAGGACGAGAGGATACAGCAG
ACACAACCTAATAGAGAGGGCGCCTGCAGCCTTAACCTCCACGGCCTTCGATACTTATGCAAGCCTGGTGTGCT
CCTGTCTCAGAGTCATCCTGCGCTCATGCCTTTTCCGAATGGGTTACCTCTGGCAGTTGCCGCTTCAGTCTT
GGCCTTAGCCTCATCTGAAGTGGGTAGCTGGCGGGAGAGGGTGGCTGCGCCCCCTGCTGGCCCTGAGGCTGCAG
AGTTGGGAGCAGGACACCTCACCTGAGTTTCAATTTTTTTTTCATGTCCAAACCATGCACATACTATAGTCCAGAAT

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FIGURE 155B

CAAAGCACTTTTGAAGAGTGGCTGCATGGCCATCCTCCAGGGCCCAGGAAGTTGCATTCCAAGGGCCTGTTTACA
TGGCAGCAGAATCCATCCCCGGCAGTCAGCCCATAGCTTGGGACCAGTCTGTGCCCTCCTGCCCAGTCCAGTTTA
CTCCTCTTGGTTCCCTGAAGGTGGCCAAGTCATTGTGTTCCACAGGCTTCTCTAGGCTGGGGGCAGGTGTGGGGC
TGTGGAATTCCAAGCACAAAAGGTGCAGAGGGGATTGGCCTTCTGTGCCTCAACTCACCACCCCTCCTGC
CTTCCAGTTCTGCCAGGTGCTCCATGCTGGGGACAAGTAGGAGACTGCCAGGGCCCCAAAGAAATGGGTGAGCAGT
AGAGTCATCTCGGGGCACCTGGCAGTGTCAAGCACCTGCCCCCTTGCCTCCTTGACCACACTGGGGTGGGTGGGCC
CCCAGCACTTCAGAGGCAGGAGCCTTTGGGCTGAGCAAGCACTGAGGAGGTGGATGGAAGGGAGCATCTGGAGGG
GGGGAGCTTCCCTTGAGCAGTGGGGCCAGGCCTGGCCCTCCACACTTCATTCTCTGACCTTTCTCTCTCCTCATTT
CGGTGCATGTCCTTTCTGCAGCTGCCTTTCAGCACAGGTGGTTCCACTGGGGGCAGCTAACGCTGAGTGACAAGG
ATGGGAAGCCACAGGTGCATTTTACTCAAGTCTTCTCTAGTCAATGAGGGGCACCCAGTGCTTCTAGGGCAGGCT
GGGTGGTGGTCCCCTAGGTATCAGCCTCTCTTACTGTACTCTCCGGGAATGTTAACCTTTCTATTTTCAGCCTGT
GCCACCTGTCTAGGCAAGCTGGCTTCCCCATTGGCCCCCTGTGGGTCCACAGCAGCGTGGCTGCCCCCAGGGCCA
CQGCTTCTTTCTTGATCCTCTTTCCCTTAACAGTGACTTGGGCTTGAGTCTGGCAAGGAACCTTGCTTTTAGCTTC
ACCACCAAGGAGAGAGGTTGACATGACCTCCCCGCCCCCTCACCAAGGCTGGGAACAGAGGGGATGTGGTGAGAG
CCAGGTTCCCTCTGGCCCTCTCCAGGGTGTTTTCCACTAGTCACTACTGTCTTCTCCTTGTAGCTAATCAATCAAT
ATTCTTCCCTTGCCCTGTGGGCAGTGGAGAGTGCTGCTGGGTGTACGCTGCACCTGCCCCACTGAGTTGGGGAAAGA
GGATAATCAGTGAGCACTGTTCTGCTCAGAGCTCCTGATCTACCCACCCCCCTAGGATCCAGGACTGGGTCAAAG
CTGCATGAAACCAGGCCCTGGCAGCAACCTGGGAATGGCTGGAGGTGGGAGAGAACCTGACTTCTCTTTCCCTCT
CCCTCCTCCAACATTACTGGAACTCTATCCTGTTAGGATCTTCTGAGCTTGTTTCCCTGCTGGGTGGGACAGAGG
ACAAAGGAGAAGGGAGGGTCTAGAAGAGGCAGCCCTTCTTTGTCTCTGGGGTAAATGAGCTTGACCTAGAGTAA
ATGGAGAGACCAAAAGCCTCTGATTTTTAATTTCCATAAAATGTTAGAAGTATATATATACATATATATATTTCT
TTAAATTTTTGAGTCTTTGATATGTCTAAAAATCCATTCCCTCTGCCCTGAAGCCTGAGTGAGACACATGAAGAA
AACTGTGTTTCATTTAAAGATGTTAATTAAATGATTGAACTTG

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FIGURE 156

MVVFVGRRLPALLGLFKKKGSAKAENDKHLSVGPQGPGSAVDEHQDNVFFPSGRPPHLEELHTQAQEGRLSLQH
QEKQKLNKGGWDHGDTSIQSSRTGPDENISFCSQTTSYVAESSTAEDALSIRSEMIQRKGSTFRPHDSFPKSG
KSGRRRRERRSTVLGLPQHVKELGLRNEREAPGTPRAPGARDAVRIPTVDGRPRGTSGMGARVSLQALEAEAEA
GAETEAMLQRHIDRVYRDDTFVGRSTGTRAPPLTRPMSLAVPGLTGAGPAEPLSPAMSISPQATYLSKLIPHAV
LPPTVDVVALGRCSLRTLRLSLHSASPASVRSLSGRFSSVSSPQPRSRHPSSSSDTWSHSQSSDTIVSDGSTLSS
KGGSEGQPESSTASNSVPPPQGGSGRGSPSGGSTAEASDTLSIRSSGQLSGRSVSLRKLKREPPPPRTHSLHQ
RGLAVPDGPLGLPPKPERKQQPQLPRPPTTGGSEGAGAAPCPPNPANSWVPGLSPGGSRRPERSPERTLSPPSSGY
SSQSGTPTLPPKGLAGPPASPGKAQPPKPERVTSLSRSPGASVSSSLTSLCSSSSDPAPSDRSGPQILTLPLGDRFV
IPPHPKVPAPFSPPPSKPRSPNPAAPALAAPAVVPGFVSTTDASPQSPPTPQTTLTPLQESPVISKDQSPPPSPP
PSYHPPPPPTKKPEVVVEAPSASETAEELQDPNWPPPPPPAPEEQDLSMADFPPPEEAFFSVASPEPAGPSGSP
ELVSSPAASSSSATALQIQPPGSPDPPFAPPAPAPASSAPGHVAKLPQKEPVGCSKGGGPPREDVGAPLVTPSL
QMVRLRSVGAPGGAPTALGPSAPQKPLRRALSGRASVPAPSSGLHAAVRLKACSLAASEGLSSAQPNGPPEAE
PRPPQSPASTASFIFSKGSRKLQLERPVS PETQADLQRNLVAELRSISEQRPPQAPKKSPKAPPPVARKPSVGVP
PPASPSYPRAEPLTAPPTNGLPHTQDRTKRELAENGGVLQLVGPEEKMGLPGSDSQKELA

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FIGURE 157

ATGGGGGACGCTCCCAGCCCTGAAGAGAACTGCACCTTATCACCCGGAACCTGCAGGAGGTTCTGGGGGAAGAG
AAGCTGAAGGAGATACTGAAGGAGCGGGAACCTTAAAATTTACTGGGGAACGGCAACCACGGGCAAACCACATGTG
GCTTACTTTGTGCCCATGTCAAAGATTGCAGACTTCTTAAAGGCAGGGTGTGAGGTAACAATTCTGTTTGCGGAC
CTCCACGCATACCTGGATAACATGAAAGCCCCATGGGAACCTCTAGAACTCCGAGTCAGTTACTATGAGAATGTG
ATCAAAGCAATGCTGGAGAGCATTGGTGTGCCCTTGGAGAAGCTCAAGTTTCATCAAAGGCACTGATTACCAGCTC
AGCAAAGAGTACACACTAGATGTGTACAGACTCTCCTCCGTGGTCACACAGCACGATTCCAAGAAGGCTGGAGCT
GAGGTGGTAAAGCAGGTGGAGCACCCCTTGCTGAGTGGCCTCTTATACCCCGGACTGCAGGCTTTGGATGAAGAG
TATTTAAAAGTAGATGCCCAATTTGGAGGCATTGATCAGAGAAAGATTTTCACCTTTGCAGAGAAGTACCTCCCT
GCACTTGGCTATTCAAAACGGGTCCATCTGATGAATCCTATGGTTCCAGGATTAACAGGCAGCAAAATGAGCTCT
TCAGAAGAGGAGTCCAAGATTGATCTCCTTGATCGGAAGGAGGATGTGAAGAAAAAACTGAAGAAGGCCTTCTGT
GAGCCAGGAAATGTGGAGAACAATGGGGTTCTGTCTTCATCAAGCATGTCTTTTTCCCTTAAGTCCGAGTTT
GTGATCCTACGAGATGAGAAATGGGGTGGAAACAAACCTACACAGCTTACGTGGACCTGGAAGGACTTTGCT
GCTGAGGTTGTACATCCTGGAGACCTGAAGAATTCTGTTGAAGTCGCACTGAACAAGTTGCTGGATCCAATCCGG
GAAAAGTTTAATACCCCTGCCCTGAAAAAACTGGCCAGCGCTGCCTACCCAGATCCCTCAAAGCAGAAGCCAATG
GCCAAAGGCCCTGCCAAGAATTCAGAACCCAGAGGAGGTCATCCCATCCCGGCTGGATATCCGTGTGGGGAAAATC
ATCACTGTGGAGAAGCACCCAGATGCAGACAGCCTGTATGTAGAGAAGATTGACGTGGGGGAAGCTGAACCACGG
ACTGTGGTGAGCGGCCTGGTACAGTTCGTGCCCAAGGAGGAAGTGCAGGACAGGCTGGTAGTGGTGTGTGCAAC
CTGAAACCCCAAGAAGATGAGAGGAGTCGAGTCCCAAGGCATGCTTCTGTGTGCTTCTATAGAAGGGATAAACCGC
CAGGTTGAACCTCTGGACCCTCCGGCAGGCTCTGCTCCTGGTGAGCACGTGTTTGTGAAGGGCTATGAAAAGGGC
CAACCAGATGAGGAGCTCAAGCCCCAAGAAGAAAGTCTTCGAGAAGTTGCAGGCTGACTTCAAAATTTCTGAGGAG
TGCATCGCACAGTGGAAGCAAACCAACTTCATGACCAAGCTGGGCTCCATTTCTGTAAATCGCTGAAAGGGGGG
AACATTAGCTAGCCAGCCCAGCATCTTCCCCCTTCTTCCACCACTGAGTCATCTGCTGTCTCTTCAGTCTGCTC
CATCCATACCCATTTACCCATCTCTCAGGACA

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FIGURE 158

MGDAPSP E E K L H L I T R N L Q E V L G E E K L K E I L K E R E L K I Y W G T A T T G K P H V A Y F V P M S K I A D F L K A G C E V T I L F A D
L H A Y L D N M K A P W E L L E L R V S Y Y E N V I K A M L E S I G V P L E K L K F I K G T D Y Q L S K E Y T L D V Y R L S S V V T Q H D S K K A G A
E V V K Q V E H P L L S G L L Y P G L Q A L D E E Y L K V D A Q F G G I D Q R K I F T F A E K Y L P A L G Y S K R V H L M N P M V P G L T G S K M S S
S E E S K I D L L D R K E D V K K K L K K A F C E P G N V E N N G V L S F I K H V L F P L K S E F V I L R D E K W G G N K T Y T A Y V D L E K D F A
A E V V H P G D L K N S V E A L N K L L D P I R E K F N T P A L K K L A S A A Y P D P S K Q K P M A K G P A K N S E P E E V I P S R L D I R V G K I
I T V E K H P D A D S L Y V E K I D V G E A E P R T V V S G L V Q F V P K E E L Q D R L V V V L C N L K P Q K M R G V E S Q G M L L C A S I E G I N R
Q V E P L D P P A G S A P G E H V F V K G Y E K G Q P D E E L K P K K V F E K L Q A D F K I S E E C I A Q W K Q T N F M T K L G S I S C K S L K G G
N I S

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FIGURE 159

GCGCGAGCAAGATGGCCACCACCAAGCGCGTCTTGTACGTGGGTGGACTGGCAGAGGAAGTGGACGACAAAGTTC
TTCATGCTGCGTTCATTTCCTTTTGGAGACATCACAGATATTTCAGATTCTCTGGATTATGAAACAGAAAAGCACC
GAGGATTTGCTTTTGTGAATTTGAGTTGGCAGAGGATGCTGCAGCAGCTATCGACAACATGAATGAATCTGAGC
TTTTTGGACGTACAATTCGTGTCAATTTGGCCAAACCAATGAGAATTAAGGAAGGCTCTTCCAGGCCAGTTTGGT
CAGATGATGACTGGTTGAAGAAGTTTTCTGGGAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGGTCAGAGCCTC
CCAAAGCAGAGACCCAGGAGGGAGAGCCCATTTGCTAAAAAGGCCCGCTCAAATCCTCAGGTGTACATGGACATCA
AGATTGGGAACAAGCCGGCTGGCCGCATCCAGATGCTCCTGCGTTCTGATGTGCTGCCCATGACAGCAGAGAATT
TCCGCTGCCTGTGCACTCATGAAAAGGGCTTTGGCTTTAAGGGAAGCAGCTTCCACCGCATCATCCCCAGTTCA
TGTGCCAGGGCGGTGATTTACAAAACCACAATGGCACTGGGGGCAAGTCCATCTATGGGAAGAAGTTCGATGATG
AAAACTTTATCCTCAAGCATACGGGACCAGGTCTACTATCCATGGCCAACTCTGGCCCAAACACCAATGGCTCTC
AGTTCTTCTGACATGTGACAAGACAGACTGGCTGGATGGCAAGCATGTGGTGTTTGGAGAGGTACCCGAAGGCC
TAGATGTCTTGCGGCAAATTGAGGCCAGGGCAGCAAGGACGGGAAGCCAAAGCAGAAGGTGATCATCGCCGACT
GTGGGGAGTACGTGTGAGGCGGCACTCTCTCTGCTTCCCCCTCCGCTCTTGACCCTGCATATCCAGGAAGGAAC
GCCAGCCTCAGAGGAGGCAGCACCGAGGGTGCTGTTTGAAGCAAGCAGCATTTGGGATATGTGCCCTTCCTCAG
GGTCTGCTTGGAGCAGCTCCTCTGCAGGCACAGCCTGGACTATTCCCAGGCACAGCTGTGGGCCCAGGAGCCAGC
TCAGGTGCTCCCCTCCACCATGGGCAGGCTGTGCAAAAAAGCCACTGGCTTTTCTCAGCATTGTCTGCTGGGCCT
CTCCTGGGACTACCAGTGTGGCTCTTACGTGTTTTCTTTGCTAAAATAAACCTAGTTCTTATATTAATAAAAAA
AAAAA

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FIGURE 160

MATTKRVLYVGGLAEVDDKVLHAAFIPFGDITDIQIPLDYETEKHRGFVFEFELAEDAAAAIDNMNESELFGR
TIRVNLAKPMRIKEGSSRPVWSDDDWLKKFSGKTLEENKEEGSEPPKAETQEGEPIAKKARSNPQVYMDIKIGN
KPAGRIQMLLRSDVVPMTAENFRCLCTHEKGFGFKGSSFHRIIPQFMCQGGDFTNHNGTGGKSIYGKKFDDENFI
LKHTGPGLLSMANS GPNTNGSQFFLTCDKTDWLDGKHVVFEVTEGLDVLRQIEAQGSKDGKPKQKVIIADCGEY
V

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FIGURE 161

TCAAAGCACCTGCAGCCCCAATTTGTGATCCAGCAGCAGCCACAGCCACAACAGCAGCAGCCGCCGCCCCAGCAG
TCACGGCCTGTGCTCCAAGCTGAGCCCCACCCCCAGCTCGCCTCAGTCTCTCCAAGCGTGGCCCTCCAGCCCAGC
TCAGAGGCCCCATGCCATGCCACTAGGCCCGGTTACACCCGCCCTGCCACTCCAGTGTCCCACTGCCAACCTGCAC
AAGCCTGGCGGCAGTCAGCAGTGTACCCCTCCACACCTGATACTGGGCCTCAGAATGGACATCCCAGGGGCGTG
CCCCACACCCCTCAACGCAGGTTCCAGCACACTTCAGCTGTCTTACAACCTGCAGCCTGCTTCACCACTGCCCC
CAGCAGTGTGTCCCTGATGACTGGAAAGAAGTGGCACCAGGGGAGAAAAGTGTGCCTGAGACGCGGTCTGGCCCA
TCACCACATCAGCAGGCTATTGTCACTGCCATGCCTGGTGGCCTGCCTGTACCCACGAGCCCTAACATCCAGCCG
TCCCAGCTCACGAGACAGGGCAGGGCATTGTTTCATGCACTGACCGACCTCAGCAGCCCCGGCATGACCTCAGGG
AACGGAAACTCTGCCTCCAGCATCGCCGGCACTGCCCCCAGAATGGTGAGAATAAACCACCACAGGCCATTGTG
AAACCCCAATCCTGACGCATGTTATCGAAGGGTTTGTGATCCAGGAGGGGGCGGAGCCTTTCCCGGTGGGACGC
TCGTCCCTGTGCTGGTGGGGAATCTCAAGAAGAAGTATGCACAGGGGTTCTGCCTGAGAACTTCCACAGCAGGAT
CACACCACCACCACTGACTCGGAGATGGAGGAGCCCTATCTGCAAGAATCCAAAGAGGAGGGTGCTCCCTCAAA
CTCAAGTGTGAGCTCTGTGGCCGGGTGGACTTTGCCTATAAGTTCAAGCGTTCCAAGCGCTTCTGTTCCATGGCT
TGTGCAAAGAGGTACAACGTGGGATGCACAAACGGGTGGGACTTTTCCACTCAGACCGGAGCAAGCTGCAGAAG
GCAGGAGCTGCGACCCACAACCGCGTTCGGGCCAGCAAAGCCAGTCTGCCACCCTTACCAAGGATACCAAGAAG
CAGCCAACAGGCACTGTGCCCTTTTCGGTTACTGCTGCTTTGCAGCTAACACACAGCCAGGAAGACTCCAGCCGT
TGCTCAGATAACTCAAGCTATGAGGAACCTTTGTACCCATCTCAGCCAGTCTATCTACTTCCCGCCGGCGACAA
GGCCAGCGGGACCTGGAGCTCCCCGACATGCATATCGGGGACCTGGTGGGCATGGGACACCACTTCTGCCAAGT
GAGCCCACCAAGTGGAATGTAGAAGACGTCTACGAATTCATCCGCTCTCTGCCAGGCTGCCAGGAGATAGCAGAG
GAATTCCGTGCCCAGGAATCGACGGGCAAGCCCTGCTGCTGCTCAAGGAGGACCACCTGATGAGCGCCATGAAC
ATCAAGCTGGGGCCCGCCCTGAAGATCTACGCCCCGATCAGCATGCTCAAGGACTCCTAGGGCTGGTGGCAGCCA
GGATTCTGGCCCAGGGCGCCTCCTCCCAGCTGAGCAGAGCCAGACAGACATTCTGAGGGGCCAGAAATGGGGC
CGGTTGGAGGGCAGGGGCTCTCCCTAGGGGCATAGCTGGTGAGGAGGTCTGGGCACCTCCTCCATGGCTCTCAGG
G3CCTTTTCATTTCTGTGGGAGGGGCAGAGAGGTAGGTGGCACAGAAGATGGGGCTTTATGCTTGTAATATTGAT
AGCACTGGCTTCCTCCAAAGTCCCAATACTCTAGCCCCGCTCTCTTCCCCTCTTTCTGTCCCCCATTTTCCAGGG
GGTATATGGTCAGGGCTCCCCAACCTGAGTTGGGTTACTTCAAGGGCAGCCAGCAGGCCTGGATGGAGGCCTAGA
AAGCCCTTGCTTCCCTTCCCTCCCACTTCTTTCTCCAGGCCTGGTTAACTCTTCCGTTGTGAGCTTCTCCCCCTT
AGCCTGTTTCTGCAGCAGCCAGGGTTCTCCCCCTACACCTCTGCAGGTGGAGAGAGAGAAGCTGGGCCCAGCC
GGGCCGTGCTGCTGGCACAGACGCCTTAACGCTGTGTGATGACTGTGTGACTGTGTGGGAGCCTGGACTGACA
GATAGGCCAAGGGCTACTCTCTGGCATCTCCAGGTGTTTTGTAGCAAACAGCCACTTAGTGCTTTGTCTGGACT
CCACTCAGCCTCAGGATGGGGAATAGCCAAGAATGGCAGCCTCAGCGCAGAGGCAAGGTGAGAAAGAGACGGCGC
TTCAGAGTTTCTTTCCAGACACCCCTCCCCGCACTGTGAAGTTCCCTGACCGCCCTCCTGGTTACAAAGAGC
ATTAAGAAAGCTGCGGTGGTCTGAGCAACATAGCCCAAAGGGCTGAGCCTCCTGGCCTGCCTGCCCGCCACCCCT
GGGAGTCCCAGTGGTGGGCTCAGAGAACTGCTAAGGGGAAAGAACAGCTGGAGTTTCTGTTGATGTGAAGAAGG
CAGCTCTTGGCCTCCCACTCCACACTTCTTTGCCTATAAATCTTCTAGCAGCAATTTGAGCTACCTGAGGAGG
AGGCAGGGCAGAAAGGGCGAGGGCCTGCCTCTGACCTGCCGTGTCTTTGCAGGAAGGAGGTAGGCACCTTTCTG
AGCTTATTCTATTCCCCACCCACACCCCCAGGCAGGGTTGGAAATGAAGGACTTTTTTAACCTTTGTTTTGTTTT
TTAAAAATAAATCTGTAAATCTG

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FIGURE 162

MPLGVPVTPALPLQCPTANLHKPGGSQQCHPPTPDTGPNQNGHPEGVPHTPQRRFQHTSAVILQLQPASPVPQQCVP
DDWKEVAPGEKSVPETRSGPSPHQQAIVTAMPGGLPVPTSPNIQPSPAHETGQGIVHALTDLSSPGMTSGNGNSA
SSIAGTAPQNGENKPPQAIVKPQILTHVIEGFVIEGAEPFPVGRSSLLVGNLKKKYAQGFLEKLPQQDHTTTT
DSEMEEPYLQESKEEGAPLKLKCELCGRVDFAYKFKRSKRFCSMACAKRYNVGCTKRVGLFHSDRSKLQKAGAAAT
HNRRRASKASLPPLTKDTKKOPTGTVPPLSVTAALQLTHSQEDSSRCSNDSYEEPLSPISASSSTSRRRQGGQDRL
ELPDMHMRDLVGMGHHFLPSEPTKWNVEDVYEFIRSLPGCQEIAEEFRAQEIDGQALLLLKEDHLMSAMNIKLGP
ALKIYARISMLKDS

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FIGURE 163

AGACAAGGCAAATTTAAGTAGGCTCATGGCTTTTCCAGTTGGGTTGGAAAGTTCTCTCCGATGACTGTTATATT
CTCAAAGAAATATGAGGAGAGGGGCAGGGCATGGTGGCTCACATCCGTAATCCTAGCAAATCATAGTGGCCTACA
GCCAACGCCTTCTTCGCTCACTGGCCAACTGGAACTTCAGTCCCCCATGCCTCCCGCCTCTCACCCAGGGGCC
AATAGGAATGATCAGAGGTTTCGCAACTTAGTGTCATCAAGCATAGTAATTGCAATTGGCTATTGGAGCTGTCGAT
CGTGGAGTAGGCGGGGCCGTGCCAGCTGGCCTATATAAGACGAGGACAAAGGCGGCGCGCCGCCTGTGTCATCCG
CCATTTTGTGAGAAGCAAGGTGGCCTCCACGTTTCCTGAGCGTCTTCTTCGCTTTTGCCCTCGACCGCCCTTGAC
CACAGACATGTCTCGGGATCGGTTCCGGAGTCGTGGCGGTGGCGGTGGTGGCTTCCACAGGCGTGGAGGAGGCGG
CGGCCGCGGCGGCCTCCACGACTTCCGTTCTCCGCCGCCCGGCATGGGCCTCAATCAGAATCGCGGCCAGGCCCG
ACTCCGACCCCGCCGCCTGCAGTCACCTCGGCCCTCCCGGGGCGCCGCCACCCACCCCGCCAAGCAGCGGGGTC
CCTACCACACCTCCTCAGGCCGGAGGCCCGCCGCCTCCGCCCGCGGCAGTCCCGGGCCCGGGTCCAGGGCCTAAG
CAGGGCCCAGGTCCGGGTGGTCCCAAAGGCGGCAAAATGCCTGGCGGGCCGAAGCCAGGTGGCGGCCCGGGCCTA
AGTACGCCITGGCGGCCACCCCAAGCCGCCGCATCGAGGCGGCGGGGAGCCCCGCGGGGGCCGCCAGCACCCCG
CCCTACCACCAGCAGCATCACCAGGGGCCCCCGCCGGCGGGCCCGGCGGCCGAGCGAGGAGAAGATCTCGGAC
TCGGAG

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FIGURE 164

MAFPVGLESSSPMTVIFSKKYEERGRAWWLTSVILANHSGLQTPSSLTGQLETSPVPCLPPLTQGPIMIRGSQ
LSVIKHSNCNWLLELSIVE

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FIGURE 165

GGCGAGCAGTCTGCGCGCGGATGGCCGCAGCGGCGATGGCGGCAGCGGCAGGTGGAGGGGCTGGCGCGGCCCGCT
CCCTCTCGCGCTTCCGAGGCTGCCCTGGCTGGTGCGCTGCTCGGGGACTGCGTGGGCTCCTTCTACGAGGCCACG
ACACCGTCGACCTGACGTCAGTCCTGCGTCATGTCCAGAGTCTGGAGCCGGACCCCGGCACGCCCGGGAGTGAGC
GGACAGAAGCCTTGTAACACAGATGACACAGCCATGGCCAGGGCCCTGGTGCAGTCCCTGCTAGCCAAGGAGG
CCTTTGACGAGGTGGACATGGCTCACAGATTTGCTCAGGAGTACAAGAAAGACCCTGACAGGGGCTATGGTGCTG
GAGTAGTCACTGTCTTCAAGAAGCTCCTGAACCCCAAATGTCGCGATGTCTTTGAGCCTGCCCGGGCCAGTTTA
ACGGGAAAGGCTCCTATGGCAATGGAGGTGCCATGCGGGTGGCTGGCATCTCCCTGGCCTATAGCAGTGTCCAGG
ATGTGCAGAAGTTTGGCCGGCTCTCGGCCAGCTGACACACGCCTCCTCCCTGGGTTACAATGGCGCCATCCTGC
AGGCCCTGGCTGTGCACCTGGCCTTGACAGGGCAGTCTTCCAGCGAGCACTTTCTCAAGCAACTCCTGGGCCACA
TGGAGGATCTGGAGGGTGATGCCAGTCCGTCTTGGATGCCAGGGAGTTGGGCATGGAGGAGCGTCCATACTCCA
GCCGCTGAAGAAGATTGGAGAGCTTCTAGACCAGGCATCGGTGACCAGGGAGGAAGTGGTGTCTGAGCTAGGGA
ATGGCATTGCTGCCTTTGAGTCGGTACCCACCGCCATCTACTGCTTCCTACGCTGCATGGAGCCAGACCCTGAGA
TCCCTTCTGCCTTCAATAGCCTCCAAAGGACTCTCATTTATTCCATCTCACTTGGTGGGGACACAGACACCATTG
CCACCATGGCTGGGGCCATTGCTGGTGCCTACTATGGGATGGATCAGGTGCCAGAGAGCTGGCAGCAAAGCTGTG
AAGGCTACGAGGAGACAGACATCCTGGCCCAAAGCCTGCACCGTGTCTTCCAGAAGAGTTGATGAGGGCTACAGC
TGTTGGGGCTCTGCCAGGTCCCTGGGACCAACTACAGCTCCAATCAGAAACCCTGCGCTTCCTTGAGTGTGGCT
TCCCACCTTTTCTGCTATTGTGGAGCTGACTGAGTACACCGGTGAGGCTGGGGTCTCTGCAGGGGAGGTCACTGGA
ACAGCGAGCAAGGGACTGGTGCCTCGCTGGTGTGGTCTCTGGTTTGTCTGCAGAGCCGTAGGACACTCCTGGCT
CCTCAGTAGGACAGACAGACGACGAGCGGGTTTATTTTGGAGGGGTACTTGTGGCATTTCCTGTATTGTCTTGGA
CATGGGATGTGGGGAGGTGGAAATGATGAGCAGTAGCATCATTTCTCCCTGTTGGGTTTTAGCCAGTTTGCCAGC
AAGCGCATCCTAGCAGGGTCCCCGAGCAGCAGGTTGTGTGGATGAAGGGACAGGCACTTGCATCCAGCTGATCTA
GGTACACCTGGCTCTTGGCTGCCATGTGGCTTATTAACAGCTTCCAGTGGAAGTCGCAATAAACAGTTTTTGGT
AAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 166

MAAAAMAAAAGGGAGAARSLSRFRGCLAGALLGDCVGSFYEAHDTVDLTSVLRHVQSLEPDPGTPGSERTEALYY
TDDTAMARALVQSLLAKEAFDEVMAHRFAQEYKKDPDRGYGAGVVTVFKLLNPKCRDVFEPARAQFNGKGSYG
NGGAMRVAGISLAYSSVQDVQKFARLSAQLTHASSLGYNAILQALAVHLALQGESSSEHFLKQLLGHMEDLEGD
AQSVLDARELGMEERPYSRLKKIGELLDQASVTREEVVSELGNGIAAFESVPTAIYCFLRCMEPDPEIPSAFNS
LQRTLIYSISLGGD TDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILAQSLHRV FQKS

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FIGURE 167

CCGTGGCTAGGCGAGTGGGGCGGGGCGGCCGGCACCATGTTCGAGGCAGGCGAACCGTGGCACCGAGAGCAAGAAA
ATGAGCTCTGAGCTCTTCACCCTGACCTATGGTGCCCTGGTCACCCAGCTATGTAAGGACTATGAAAATGATGAA
GATGTGAATAAACAGCTGGACAAAATGGGCTTTAACATTGGAGTCCGGCTGATTGAAGATTCTTGCTCGGTCA
AATGTTGGGAGGTGCCATGACTTTCGGGAAACTGCGGATGTCATTGCCAAGGTGGCGTTCAAGATGTACTTGGGC
ATCACTCCAAGCATTACTAATTGGAGCCCAGCTGGTGATGAATTCTCCCTCATTTTGGAAAATAACCCCTTGGTG
GACTTTGTGGAACCTCCTGATAACCACTCATCCCTTATTTATTCCAATCTCTTGTTGTGGGGTGTTCGCGGGAGCT
TTGGAGATGGTCCAGATGGCTGTGGAGGCCAAGTTTGTCCAGGACACCCTGAAAGGAGACGGTGTGACAGAAATC
CGGATGAGATTATCAGGCGGATTGAGGACAATCTTCCAGCTGGAGAGGAATTAACCATCCCTACAACCTCGAGGAT
AGCCATCAGGAGCACTGTTGGAATCAGCAGGCCTCTGTGCTCCCTCTGCCCTCCAGAACTCAGTGACTCTTGAAC
ATGGATGTTATATATTCTTATAACCTGTTTCCATTCTCCATTCAAATAAAGAGCAGACTGCGATATAGTCCATTT
ACCCCATGTGTGCACATTCAGGAGCGACAGTCTCTGCCCCCATTCCCTTGAGAGGGGGCTGGATGTAATCACCTTT
GGTTGGACTAGAAAGAGCTCAAACCATTTTACATTCTGTTTGAATTTTCCAAAGCAAACTCACTTTGACCCCA
TTAAGAGGCAAGCCTGGCACATCTATCCCTGGGCCTTTAGAAAGCCATTTGCCTCAAATGGCTATAGGGTTGTGG
GGTGGAGGGAGGAAGGGCTGGGAGGGAGTGGGAGGAATTGCTAGCTGTAGTGTGACACATTGTAGTGTGTGCCA
GGAAAGGAGCCAGTCATGCCGGAACACTGACTTCTGGGAAGCCACCCAGGTCTCATTCCCTCCCTGCTGTTGGAG
GCAACATCTCTCTTTTTTACAGAGGGTACATCCTTTTTTCTTACAAATTCTTCAATAAAGACACATTCTTGAGTG
AAATCCCTAAAAAAAAA

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FIGURE 168

MSRQANRGTESKKMSSELF¹TLTYGALVTQLCKDYENDEDVNKQLDKMGFNIGVRLIEDFLARSNVGRCHDFRETA
DVIKVAFKMYLGITPSITNWSPAGDEFSLILENNPLVDFVELPDNHSSLIYSNLLCGVLRGALEMVQMAVEAKF
VQDTLKGDGVTEIRMRFIRRIEDNLPAGEE

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FIGURE 169A

ACTTACTATTGGAGGCAGTGGGCAGCGCAGGACAGGCCCCAGGGCCGCCGACCCTGGCAATGACTGTCAACCAGCTG
GAGGGAAGAGCTGAGAATGAAGCGGAGAGCATCAGACAGAGGAGCTGGGGAAACGTCGGCCAGGGCCAAGGCTCT
AGGAAGTGGGATTTCTGGAAATAATGCAAAGAGAGCTGGACCATTATCCTTGGTCCCCGTCTGGGCAACTCACC
GGTGCCAAGCATAGTGCAGTGTGTTGGCGAGGAAAGATGGCACGGATGACTTCTATCAGCTGAAGATCCTGACCCT
GGAGGAGAGGGGGGACCAAGGCATAGAGAGCCAGGAAGAGCGGCAGGGCAAGATGCTGCTGCACACCGAGTACTC
ACTGCTGTCTCTCCTGCACACGCAGGATGGCGTGGTGCACCACCACGGCCTCTTCCAGGACCGCACCTGTGAAAT
CGTTGAGGACACAGAAATCCAGCCGGATGGTTAAGAAGATGAAGAAGCGCATCTGCCTCGTCTGACTGCCTCTG
TGCTCATGACTTCAGCGATAAGACCGCTGACCTCATCAACCTGCAGCACTACGTCATCAAGGAGAAGAGGCTCAG
CGAGAGGGAGACTGTGGTAATCTTCTACGACGTGGTCCGCGTGGTGGAGGCCCTGCACCAGAAAAATATCGTGCA
CAGAGACCTGAAGCTGGGGAACATGGTGCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGCCTCGG
GAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGACGTGCT
CAGCGGCCCGCCGTACCGTGGAAGCCAGTGACATGTGGGCCCTGGGCGTGGTGCTCTTACCATTGCTGTATGG
CCAGTTCCCCCTTCTACGACAGCATCCCGCAGGAGCTCTTCCGCAAGATCAAGGCTGCCGAGTATACCATTCCTGA
GGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCTTGACCCCCAGCAGCGCCTGGC
CGCCCGGACGTCTGGAGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCTCTGAGTGGGCCCTT
GCAAGTGGTTCTTGACATTGATGACCAATGAGCAATGCGGATAGCTCCAGGAGGTGAGTTGGGGAGGGCAGAT
GGGCCATTACCCAGCCCCAAGGGACAGGCTTCTGGGGGCAGGCAGGGCAAGGGCAGAGGTGGCAGCTACCCGCGAG
GCCACAGAGTTTCTTGGTCTTCTTCCCCAGCCTTGGGGTGGGAAAGGGAGACTTCAGTCTCTAGCCTGAGCTGC
CTGGGGCCTGCCTTGGGCTTGGTGTAGCTGGAGATCTTTGGCCAGAGAGACCTGTGAGACAGCCGAGCTGGAGCC
AGTGCCCAAGTGGCCCAGGCCAGCCCTCTCAGCTTCTCTGCTGCCCAAGTCACATTTCTTGCCCCCTGACTC
AGAGTTCTCTCTACCCCTTCTGCTTTTTCATTTTTCAGATGATTTCATTTCTCCCTATTTCTTTCTCCCCATTCC
CTGCACTGGAGAAAGTGTGTTGGGCTAGGGTGGGGGCAGAGACTTGGGCACCAGGCAGCAGAGGGCAGGTGATCTT
AGGGTGGCCCCCTGGAGGGCAGGGCTTGGCCGAGCAACAGCATTGCTGGGCCCTGGATATTGGAAGGACCTTCCCT
CCCTGGCCCACCTTGGAGCTCCACAGTGAGCAGTGTGCAGGTAGGACCAGGAGGGGCCGTGCCTGGGAGAGCCTC
CCAGAGCCTCCTGGCCCCCGAGGAAAGAGAGTTCCAATCCCTACCCACCTCCAGCTTCCACCCTTTAGCTGTTTG
GCTAAATCATCATCACTAGCCCCGAGTGAGTGCCTACCCCGAGGGCACCTCATTACGCCCTCACTGCGGGCCTG
CGTGGCCTGTGTTCTTAGCCCCATGTTACAGAAGAGGAAACAGGGTTAGAGAGGACTTTCCCAAAGCCACACAGC
TTAGAAGTAGTGGAGCTAAGCCTTGAACCCAAAGTCTCATCCGGAAGCCCTGCTGTCTCCTGTGGTGAAGTGCAGC
GGGACACCACTTCAGCTTCTGTTACCATCTGCCTAGACCATCCAGGGAGCTCAGCATGGGGCCCTGCGTATGTG
GCTCCTCCAGGTGCTGCGCCCCAGCCCAGGGCTTGTCTGTACCTCTTGACGTGCATTAGCCGCCTCAGGGCTCA
GAGAACCTTTGCGAGGGGGCCAGACAGCTAAGGCTTCTGAGGTAAAGTGACCTCTCACGCAGCCAGTGAGTTAGGA
AGCATGAGTCTGCGTCAGTCCCGGGTCCGCGAGGGCGGCCTGCAAGGGGAGTTGAGGTTGGCTGGAGGGGGTCAAGG
GACCCACCTCAGCGCCACTCCACCCCCGGCCTTGAAGCCTGAGGGTGTGGTGCCTGGAAGGGTGAAGTGCAGGA
GCCAGGCTGCCAGCACTCTTGCTGCCCCCTGTCTGTCTGCGCTGCCTTCATCTGGGTTTATCTTTGTCTCCTTC
CCACCTCCCCGCTCAAAGGCGAAGGTGACGGAGGAGTGTCTCCAGTACGAGTTTGAGAACTACATGCGTCAGC
AGCTGCTGCTGGCCGAGGAGAAGAGCTCCATCCATGACGCCCCGAGCTGGGTACCCAAGCGGCAGTTCCGGCAGCG
CACCACCGGTGCGACGGCTGGGCCACGACGCACAGCCCATGACCTCCTTGGACACGGCCATCCTGGCGCAGCGCT
ACCTGCGGAAATAACAGCCTCAGCCGGGGCCACCAGCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGGCGTGG
CTGTACAGGGCTGGGCCCTGTAGTGTGCTGACTCTCCCGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGCCCA
GGTCACACGTGGGGTCAAGAGAGGTACCACGAAGCTACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAAT
CTGAGAAGCCTAGATAACTAATCTGCTTTTAAATCACGATGTTTTAATCTACCTCTGTCTCTTTAACCATGCTGTC
TCTGAGTGAAGAGGGAGGAGGGAGCCTGCTCACCCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACC
TGGGGCGCTGCTCCCCACAGTCCAAATAAGCTGAAAAGTGCAGCTCGCTGCAGGCCCCAGAGCGAGCTTCCCTCC
TCCCTGCTCTCCAGGCCCTGCCACAGCCTCTTTCGTCCCTCTCTTTCTGATCCAGGCCCCCTCAGTCCAAGCT
TTGGAACCTTCACCTCATCTTAAACCGAACTCAAATATATTTATTTTTTACCATAACCAACTTCTCTCCCATC
TCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCCAGCCTGGCTGGACAGCAAGGAATCCACAGCCACACGTG
AGCTCCCTCCTCACCCCGAGGAGGAAAGCCCTCCTGCCAGTCCCTGTCCCTTTTACGCCCACAGTCCCTCTC
TGCTGCCGGTGATGGGAGGCCTTTCTAGACCTGGCTCTTCTCTCCCGTCTCAGTGGCTTCTCTGAGGTGCTGTA

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FIGURE 169B

CACGCGCGTTAACCTGTTCCCTTCTCTATCCTTCCCCGTGGTACTGAGCTCACGTGGACTCCCAGTGCGAAGGGG
CCCATGGGTTGGGCTGCAGGCCTGGCCGTGAGCGGGGGCTGCCTGCACGCTCCCCTAGCCTACTCTTGTGTTTAG
GGGATGGTGGGAACATATCCCACTGCCCTTGCCCTATAATAGATGTGGTGACTCTCCCGGTAGACCCTAGCAAGG
GTCCTCCATGGTGGTGAGGGACTCAGGAGAATTGTAGGGATTGGGGGACCCTGCCTGCCTGGCTTGAGAACAGCC
CTGCTGCCCTTTTGAGCCGAGATTTTGAAGTGGATGCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAATGCCCC
CTCCCCTTGCCCTTACTGGACTTGCCCTGCCTGATGCCAAGCAAAGACCCTTCCCCAGAGGCCTACCCCCATA
TGTCTCAGAGAGGCTGAGTGTCCCTCCAGGCAGTCATGGGCCCTGAGGCCCTCCTGCCTGGCCCTGCTCCCC
AGTGGGGAGGTGACTGTGTTTCCCAGAGTGTGAGCCGCTCTCCTCCCCCTAAAAAGCTGACTCACTGTGAGTGAC
CTTGGGCAAGTTCCCAAACCTCCTTGTGCCTCAGTTTCCCCATCTGGAAAAAATGGGGCCACCTCTTGCCAGCAG
TAGCAGGGCTGCCCCACGCCCTTTCTCCCCATGCCCCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGG
GCCTGTGGGAGCCTACTGGAGCCCAGCACTTACTCCCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGC
GCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGGGATGCCCTCTTTTCTATATTTATTTTCATAGAAAGTCTCCT
GCGGGAGCGGAAATGCAGTCCGGCCTAGGGCTCCCAGCCCTTGACTGTCTCCTGTGAGGGCCTGAAGCTGGGCC
AGGGCCCGCTCGCAGCGGAGCCCCCTCTCAGCAGCCACCGGGTCCCTCCAGGCTGCTGCCCCGTGCGTGGTCTTTC
TCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCAAAGCCCTGTGACACAGACTGGGCCCTTCCAAGGTCAAGCC
ATGTGTCTGATGACATTCTTGGTGAAGCAAAGGAGAGGAGGATGGGTCAGCCCTCACTGGGTGTCACACACTGAG
AGAAGTCCTATTGTAAAGAAACGGAAAAAGTCACAAAAAGTTTGTATAAAGACATATTTTTGTACTACATGGGG
ACTCTTCCTGCATGTCAGCAATAAACTTCTGATCTGG

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FIGURE 170

MKRRASDRGAGETSARAKALGSGISGNNAKRAGPFILGPRLGNSPVPSIVQCLARKDGTDDFYQLKILTLEERGD
QGIESQEERQ GKMLLHTEYSLLSLLHTQDGVVHHHGLFQDRTCEIVEDTESSRMVKKMKKRICLVLDCLCAHDFS
DKTADLINLQHYVIKEKRLSERETVVIFYDVVRVVEALHQKNIVHRDLKLGNMVLNKRTHRITITNFCLGKHLVS
EGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLF TMLYGQFFFYDSIPQELFRKIKAAEYTIPEDGRVS
ENTVCLIRKLLVLDPPQRLAAADVLEALSATIASWQSLSSLSGFLQVVPDIDDQMSNADSSQEVSWGGQM GHYPA
PRDRLLGAGRARA EVAATRRPQSFLGLLPQPWGGKGRLQSSA

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FIGURE 171

ATTGGGACGCTGCGGCCTGGCCTTCAGGCCACTGGCTACCGAACCCCGGGGCTCTTCACCAGTCCAGCTCGTTTC
CAGCACCATGTCGGTGCGGACGCTACCGCTGCTCTTCTTGAACCTTGGGCGGGGAGATGCTTTACATCCTCGACCA
ACGGCTGCGGGCCCAAGAACATCCCGGGAGACAAGGCCCGCAAAGTTCTGAATGACATCATCTCCACCATGTTCAA
TAGAAAAGTTTATGGAGGAATTATTCAAGCCTCAAGAGCTCTACTCCAAGAAGGCCCTGAGGACTGTCTATGAGCG
CCTGGCTCATGCCTCCATTATGAAACTGAACCAGGCCAGCATGGATAAGCTCTATGACCTGATGACCATGGCTTT
CAAATATCAAGTATTGCTGTGTCCCGACCCAAGGATGTGCTGCTGGTCACTTTCAATCACTTGGATACCATCAA
GGGATTTCATCCGAGACTCCCCAACCATCCTGCAGCAAGTGGACGAGACTTTGCGGCAGCTGACAGAAATATATGG
TGGTCTCTCTGCAGGGGAGTTCCAGCTGATCCGGCAGACACTCCTCATCTTCTTCCAAGACCTGCACATCCGAGT
ATCCATGTTTCTAAAGGACAAAGTTCAGAATAATAACGGTCGCTTTGTGTTGCCGGTGTCGGGCCTGTTCTTG
GGAACTGAAGTTCCAGGACTCATCAGAATGTTCAACAACAAAGGTGAAGAAGTGAAGAGGATAGAATTCAAGCA
TGGTGGAACTATGTCCCTGCACCCAAGAAGGTTCTTTTGAACCTTATGGAGACCGAGTCCTGAAACTGGGAAC
TAACATGTACAGCGTGAATCAGCCTGTGGAACTCATGTGTCTGGATCATCAAAGAACTTAGCCTCATGGACCCA
GGAAAGCATTGCTCCAAACCCTCTTGCTAAAGAAGAGCTGAATTTCTTGGCCAGGCTGATGGGAGGGATGGAGAT
TAAGAAACCCAGTGGCCCTGAGCCCAGATTCCGGTTGAATCTCTTTACCACCGATGAAGAAGAGGAACAAGCAGC
GCTAACCAGGCCAGAAGAGTTATCCTATGAAGTTATCAACATACAAGCCACCCAGTCTCTTTTCAGCAATCTGGC
CACCATTAGGGGGGCTGACTGGGTGACAGATGAATGGGAAGGTTCTGACCTGTTTTGAGTCCGGCTCCACCT
TGCTGTACATATCAGAATGTCAGTCTGAGTGTGTCCAGGGCCTTGGAGGTGGGCCGTGAGGTGCCGAGAA
GCAGCCGCAGCCTCCTCCCTCCACCTATCCAGAGCGATGCTGGTGATTTCAAACGTATCTGTCTATCAGTAAA
TAAACAAGATGCAGATCTCTGGT

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FIGURE 172

MSVRTLPLLFLNLGGEMLYILDQRLRAQNIPGDKARKVLNDIISTMFNRKFMEELFKPQELYSKKALRTVYERLA
HASIMKLNQASMDKLYDLMTMAFKYQVLLCPRPKDVLLVTFNHLDTIKGFIRDSPTILQQVDETLRQLTEIYGGL
SAGEFQLIRQTLLIFFQDLHIRVSMFLKDKVQNNNGRFVLPVSGPVPWGTEVPGLIRMFNNKGEEVKRIEFKHGG
NYVPAPKEGSFELYGDRVLKLGTMYSVNQPVETHVSGSSKNLASWTQESIAPNPLAKEELNFLARLMGGMEIKK
PSGPEPGFRLNLFTTDEEEEQAALTRPEELSYEVINIQTQSLFSNLATIQQGLTG

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FIGURE 173

GAAGCTGGACTGCAGCTGGTTTTAGGAACTTCTCTTGACGAGAAGAGAGACCAAGGAGGCCAAGCAGGGGCTGGG
CCAGAGGTGCCAACATGGGGAACTGAGGCTCGGCTCGGAAAGGTGAAGTAACTTGTCCAAGATCACAAAGCTGG
TGAACATCAAGTTGGTGCTATGGCAAGGCTGGGAACTGCAGCCTGACTTGGGCTGCCCTGATCATCCTGCTGCT
CCCCGGAAGTCTGGAGGAGTGCGGGCACATCAGTGTCTCAGCCCCATCGTCCACCTGGGGGATCCCATCACAGC
CTCCTGCATCATCAAGCAGAAGTGCAGCCATCTGGACCCGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCT
TCAGCCCGGGGGCAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCTGCCCCACCTCAACCA
CACTCAGGCCCTTTCTCTCCTGCTGCCTGAACTGGGGCAACAGCCTGCAGATCCTGGACCAGGTTGAGCTGCGCGC
AGGCTACCTCCAGCCATAACCCACAACCTCTCCTGCCCTCATGAACCTCACAACCAGCAGCCTCATCTGCCAGTG
GGAGCCAGGACCTGAGACCCACCTACCCACCAGCTTCACTCTGAAGAGTTTCAAGAGCCGGGGCAACTGTCTAGAC
CCAAGGGGACTCCATCCTGGACTGCGTGCCCAAGGACGGGCAGAGCCACTGCTGCATCCACGCAAACACCTGCT
GTTGTACCAGAATATGGGCATCTGGGTGCAGGCAGAGAATGCGCTGGGGACCAGCATGTCCCCACAACCTGTGTCT
TGATCCCATGGATGTTGTGAACTGGAGCCCCCATGCTGCGGACCATGGACCCAGCCCTGAAGCGGGCCCTCC
CCAGGCAGGCTGCCTACAGCTGTGCTGGGAGCCATGGCAGCCAGGCCTGCACATAAATCAGAAGTGTGAGCTGCG
CCACAAGCCGCAGCGTGGAGAAGCCAGCTGGGCACTGGTGGGCCCCCTCCCCTTGGAGGCCCTTCAGTATGAGCT
CTGCGGGCTCCTCCAGCCACGGCCTACACCTGCAGATACGCTGCATCCGCTGGCCCCCTGCCCTGGCCACTGGAG
CGACTGGAGCCCCAGCCTGGAGCTGAGAACTACCGAACGGGCCCCCACTGTCTAGACTGGACACATGGTGGCGGCA
GAGGCAGCTGGACCCCAGGACAGTGCAGCTGTTCTGGAAGCCAGTGCCCCCTGGAGGAAGACAGCGGACGGATCCA
AGGTTATGTGGTTTTCTTGGAGACCCTCAGGCCAGGCTGGGGCCATCCTGCCCCCTTGCAACACCACAGAGCTCAG
CTGCACCTTCCACCTGCCTTCAGAAGCCAGGAGGTGGCCCTTGTGGCCTATAACTCAGCCGGGACCTCTCGCCC
CACCCCGGTGGTCTTCTCAGAAAGCAGAGGCCAGCTCTGACCAGACTCCATGCCATGGCCCCGAGACCCTCACAG
CCTCTGGGTAGGCTGGGAGCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGGCTGGGGCCCCCCAG
CGCGAGCAATAGCAACAAGACCTGGAGGATGGAACAGAATGGGAGAGCCACGGGGTTTCTGCTGAAGGAGAACAT
CAGGCCCTTTTCACTCTATGAGATCATCTGACTCCCTTGTACCAGGACACCATGGGACCCTCCAGCATGTCTA
TGCCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCACATTGGCAAGACCTGGGCACA
GCTGGAGTGGGTGCCTGAGCCCCCTGAGCTGGGGAAGAGCCCCCTTACCCACTACACCATCTTCTGGACCAACGC
TCAGAACCAGTCCTTCTCCGCCATCCTGAATGCCTCCTCCCGTGGCTTTGTCTCCATGGCCTGGAGCCCGCCAG
TCTGTATCACATCCACCTCATGGCTGCCAGCCAGGCTGGGGCCACCAACAGTACAGTCCTCACCTGATGACCTT
GACCCAGAGGGGTGCGAGCTACACATCATCCTGGGCCTGTTTCGGCCTCCTGCTGTGTGCTCACCTGCCTCTGTGG
AACTGCCTGGCTCTGTTGCAGCCCCAACAGGAAGAATCCCCTCTGGCCAAGTGTCCAGACCCAGCTCACAGCAG
CCTGGGCTCCTGGGTGCCACAATCATGGAGGAGGATGCCTTCCAGCTGCCCGGCCTTGGCAGGCCACCCATCAC
CAAGCTCACAGTCTGGAGGAGGATGAAAAGAAGCCGGTGCCCTGGGAGTCCCATAACAGCTCAGAGACCTGTGG
CCTCCCCACTCTGGTCCAGACCTATGTGCTCCAGGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCAGTC
TGGCACCAGCGATCAGGTCTTTATGGGCAGCTGCTGGGCAGCCCCACAAGCCCAGGGCCAGGGCACTATCTCCG
CTGTGACTCCACTCAGCCCCCTTGGCGGGCCTCACCCCCAGCCCCAAGTCCTATGAGAACCTCTGGTTCCAGGC
CAGCCCCCTTGGGGACCCTGGTAACCCAGCCCCAAGCCAGGAGGACGACTGTGTCTTTGGGCCACTGCTCAACTT
CCCCCTCCTGCAGGGGATCCGGGTCCATGGGATGGAGGCGCTGGGGAGCTTCTAGGGCTTCTGGGGTTCCCTTC
TTGGGCCTGCCTCTTAAAGGCCTGAGCTAGCTGGAGAAGAGGGGAGGGTCCATAAGCCCATGACTAAAACTACC
CCAGCCCAGGCTCTCACCATCTCCAGTACCAGCATCTCCCTCTCCTCCCAATCTCCATAGGCTGGGCCTCCAG
GCGATCTGCATACTTTAAGGACCAGATCATGCTCCATCCAGCCCCACCCAATGGCCTTTTGTGCTTGTTCCTAT
AACTTCAGTATTGTAAAC

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FIGURE 174

MARLGNCSLTWAALIILLPLGSLEECHISVSAPIVHLGDPITASCIKQNCSHLDPEPQILWRLGAELQPGGRQ
QRLSDGTQESIITLPHLNHTQAFLLSCCLNWGNSLQILDQVELRAGYPPAIPHNLSCLMNLTTSSLICQWEPGPET
HLPTSFTLKSFKSRGNCQTQGDSILDCVPKDGQSHCCIPRKHLLLYQNMGIWVQAENALGTSMSPOLCLDPMDDV
KLEPPMLRTMDPSPEAAPQAGCLQLCWEPPWQGLHINQKCELRHKPQRGEASWALVGPLPLEALQYELCGLLPA
TAYTLQIRCIRWPLPGHWSWSPSLELRTERAPTVRDLTWWRQRLDPRTVQLFWKPVPLEEDSGRIQGYVVS
RPSGQAGAILPLCNTTELSCFHLPSAQEVALVAYNSAGTSRPTPVVFSERGFALTRLHAMARDPHSLWVGWE
PPNPWPQGYVIEWGLGPPSASNSNKTWRMEQNGRATGFLLENIRPFQLYEIIIVTPLYQDTMGPSQHVYAYSQEM
APSHAPELHLKHIGKTWAQLEWVPEPPELKGKSPHLYTIFWTNAQNQSFSAILNASSRGFVLHGLEPASLYHIHL
MAASQAGATNSTVLTMTLTPEGSELHIIILGLFGLLLLLTCLCGTAWLCCSPNRKNPLWPSVPDPAHSSLGSWVP
TIMEEDAFQLPGLGTPPITKLTVLEEDEKKPVPWESHNSSETCGLPTLVQTYVLQGDPRAVSTQPSQSGTSDQV
LYGQLLGSPTSPGPGHYLRCDSTQPLLAGLTPSPKSYENLWFQASPLGTLVTPAPSQEDDCVFGPLLNFPLLQGI
RVHGMEALGSF

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FIGURE 175

GGGTCGCGCGGAGATTGCTGGGCGGTTCTTGCCGGAAGCGGAGAGCGGCTGATCGCAGTCCGGAGGTGAGGCGGA
ACTCTGAGGCAGATATCCTCCCTTTCTCCTCGGCTGCTGCTCTTACTTTGACAAGCCAGGCTAACATTGAAGGT
GGTCCATTATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCGCTGGAGGCAGTATCTC
ATACCTCTGACATGCACCGTGGGTATGCAGACAGTCCTTCAAAAGCAGGAGCAGCTCCATATGTGCAGGCATTTG
ACTCGCTGCTTGCTGGTCCGTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGGAGACGTGCAGAAACATG
CGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGCTCTGTTGGTTACAGCTTCTCAGTGTCAACAGCCAGCAG
AAAATAAGCTTTCCGATTGTGTGGCACCCATCTCAGAGCAGATCAAAGAAGTGATAACCTTTCCGGGAGAAGAACC
GAGGCAGCAAGTTGTTTAAATCACCTGTCAGCTGTCAGCGAAAGTATCCAGGCCCTGGGCTGGGTGGCTATGGCTC
CCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTTATACAAACCGAGTCTCAAAGAGTACA
AAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGCTTATTTAAGTATATGGACAGAGCTGCAGGCTTACATTA
AGGAGTTCCATACCACCGGACTGGCCTGGAGCAAAACGGGGCCTGTGGCAAAAGAACTGAGCGGACTGCCATCTG
GACCTCTGCCGGATCATGTCTCTCTCCCTCCACCATGCCCCCTCCTCCCCAGTCTCTACCATTTTCATGCT
CATATGAGTCTGCTTCCCGCTCATCACTGTTTCGCGCAGATTAATCAGGGGGAGAGCATTACACATGCCCTGAAAC
ATGTATCTGATGACATGAAGACTCACAAGAACCCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCCA
AACCATTCTCTGCACCTAAACCCCAAACAGCCCATCCCCCAAACGAGCCACAAAGAAGGAGCCAGCTGTACTTG
AACTGGAGGGCAAGAAGTGGAGAGTGGAAAATCAGGAAAATGTTTCCAACCTGGTGATTGAGGACACAGAGCTGA
AACAGGTGGCTTACATATACAAGTGTGTCAACACGACATTGCAAATCAAGGGCAAAATTAACCTCATTACAGTAG
ATAACTGTAAGAACTTGGCCTGGTATTTCGATGACGTGGTGGGCATTGTGGAGATAATCAACAGTAAGGATGTCA
AAGTTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGA
ATTCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATGAATGTCCTCATTCTACAGAAGGCGGTGACT
TTAATGAATTCCCAGTTCCTGAGCAGTTCAAGACCCTATGGAACGGGCAGAAGTTGGTCAACACAGTGACAGAAA
TTGCTGGATAAGCGAAGTGCCACTGGGTTCTTTGCCCTCCCTTACACCATGGGATAAATCTGTATCAAGACGGT
TCTTTTCTAGATTTTCTCTACCTTTTTTGCTCTTAAAACTGCTTCTCTGCTCTGAGAAGCACAGCTACCTGCCTTC
ACTGAAATATACCTCAGGCTGAAATTTGGGGTGGGATAGCAGGTCAGTTGATCTTCTGCAGGAAGGTGCAGCTTT
TCCATATCAGCTCAACCACGCCCGCCAGTCCATTCTTAAGGAACTGCCGACTAGGACTGATGATGCATTTTAGCTT
TGAGCTTTTGGGGGTTATTCTACCAACAAACAGTCCATTGGAAAGAAAACAGTCCCTGGAATTAACAGATCAGAA
TGTTACACTGGTTAATCTTTTTTTTAAACAATGAGCATGAAGGTAGCAGAAGCTGGTGTGTTTCCAGATGGTTCTT
CTAACCAAATAATTTTTTCACTGTTGACAAGCGAGGCAAGGGTTGCACTGGACCAAAGGCTGAGGCTTGGCCATC
TAGCATTCCATACAAAATTGTTTCTATAAGCATTCCTTTTATTCTCTATTCTATCCTGGGTCTGCCTCAACCGT
GAGATAGGAGAGTCTCTGGTACTAGCTGCTGTAGCAGTGCCCTTCATCCAGGGCAGTTAATGGAGTCTTGGACCC
TTTCTTTCTCTGGGATCCCTGCCCAGCACCTTCCTATAGAGATGACTTTAAAAGGAAAAAAAAAAAAAAAAAAAAAC
CCACATGATTTCAAGGAGTCTGGCATTCTGAATCCTTCTTCCCTGCCAGGTGCCTGTCACCTGTCTTCACTGCC
TCCTTTTCCCTGTCTGCTCATCAGCTTATGGCTTCTGTCTAAGCACCTGAACAGAGGACTGAAACCTCCACTGC
AGGCTGGTTTTAGGTCTTGAATTATGTAAGAATCTTGCACAGCACTGCTAATGTAAATTTTCACTTGTTTTTCCCT
CTAGGACAAACACTTACCAAAATATGCAACTTTTTTTTGGTGGGAAGAGAGATTGTCCTGTGATTTCTACCCATT
TCCTGAGGCCTGTGGAAATAAACCTTTATGTACTTAAAGTTATACAGAAAATAGAATAAAGTTAATACCAAACTT
G

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FIGURE 176

CCGGAGTCTCGCGCCCGCGGTCA GTGACACAGCGAAGATCGCGT CGCCCGGCTGCCTGTGGCTCTTGGCTGTGG
CTCTCCTGCCATGGACCTGCGCTTCTCGGGCGCTGCAGCATCTGGACCCGCGCGCGCGCTGCCGTTGGTGATCT
GGCATGGGATGGGAGACAGCTGTTGCAATCCCTTAAGCATGGGTGCTATTAAAAAATGGTGGAGAAGAAAATAC
CTGGAATTTACGTCTTATCTTTAGAGATTGGGAAGACCCTGATGGAGGACGTGGAGAACAGCTTCTTCTTGAATG
TCAATTCCTCAAGTAACAACAGTGTGTCAGGCACTTGCTAAGGATCCTAAATTGCAGCAAGGCTACAATGCTATGG
GATTCTCCAGGGAGGCCAATTTCTGAGGGCAGTGGCTCAGAGATGCCCTTCACCTCCCATGATCAATCTGATCT
CGGTTGGGGGACAACATCAAGGTGTTTTTGGACTCCCTCGATGCCCAGGAGAGAGCTCTCACATCTGTGACTTCA
TCCGAAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTTTCAGGAACGCCTCGTGCAAGCCGAATACTGGCATG
ACCCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTCTTGGCAGATATAAATCAGGAGCGGGGTATCAATG
AGTCCTACAAGAAAAACCTGATGGCCCTGAAGAAGTTTGTGATGGTGAAATTCCTCAATGATTCCATTGTGGACC
CTGTAGATTTCGGAGTGGTTTTGGATTTTACAGAAGTGGCCAAGCCAAGGAAACCATTCCCTTACAGGAGACCTCCC
TGTACACACAGGACCGCTGGGGCTAAAGGAAATGGACAATGCAGGACAGCTAGTGTCTTGGCTACAGAAGGGG
ACCATCTTCAGTTGTCTGAAGAATGTTTTATGCCACATCATACCATTCCCTTGGATGAAACCCGTATAGTTCAC
AATAGAGCTCAGGGAGCCCCCTAACTCTTCCAAACCACATGGGAGACAGTTTCCTTCATGCCCAAGCCTGAGCTCA
GATCCAGCTTGCAACTAATCCTTCTATCATCTAACATGCCCTACTTGAAAGATCTAAGATCTGAATCTTATCCT
TTGCCATCTTCTGTTACCATATGGTGTGTAATGCAAGTTTAATTACCATGGAGATTGTTTTACAACTTTTGATG
TGGTCAAGTTCAGTTTTAGAAAAGGGAGTCTGTTCCAGATCAGTGCCAGAACTGTGCCCAGGCCCAAAGGAGACA
ACTAACTAAAGTAGTGAGATAGATTCTAAGGGCAAACATTTTTCCAAGTCTTGCCATATTTCAAGCAAAGAGGTG
CCCAGGCCTGAGGTACTCACATAAATGCTTTGTTTTGCTGGTGATTTAACAGTGCTTGAAAAATCTTGCTTGG
CTATTTCTGCATCATTTCTTAAGGCTGCCTTCCTCTCTCAGTACGTTGCCCTCTGTGCTATCATCTTATCATCAA
TTATTAGACAAATCCCCTGACGTCTTGCTTCTGCAGCACCCACTTTGTCTCCTCAGGTAGTGATGAATT
AGTTGCTGTACAAAAGGAGGGAAGTAGCACCCAAATTAAGTTGCTTAAGAGAGGAAATGTACATCTTGTATAAC
TTAGGGAGCGAAGAAAATGTAGGCGCGAAAGTGAAGAGTGAGGCAGCTAGTTCTTCCATTATCCATTCTCGACCAA
CCTGCCCTTTCTTAATATGACTAGTGGTCTTGATGCTAGAGTCAACTTACTCTGTGCTGGCTTTAGCAGAGAAT
AGGAGGAACCATATGAAAAAGATCAGGCTTTCTGACTTCCATCCCCAAAACACATTTACCAGCATACTCCAACT
GTTTCTGATGTGTTCCATGAGAAAAGGATTGTTTGCTCAAAAAGCTTGGAATACTACACACTCCCTTTCTCCT
TCTGGAGATCAACCCACATTAGAGTGTCTAAGGACTCCTGAGAATTCCTGTTACAGTAAACAAAACCTAACGTAAT
CTACCATTTCTTACACTATTTGAGCATGGAAATCATAGTCCCCACTCTGTGAAAACCTTAACGCTTTTTGGAAGAC
ATTTCTGTAGCATGTCAGTTTGGAGAAATGATGAGCTACGCCTTGATGAAAGAACCGTGTGGTGCTGCTAAGTT
TAGCCATTATGGTTTTTCTTTCTCTCTTAAAGCCTTATTCTTCAACTAAAAGATGAGGATTAAGAGCAAGAAG
TTGGGGGGGATGTGAAAAATAATTTTATGAGGTTGTCTAAAT

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FIGURE 177

MASPGCLWLLAVALLPWTCASRALQHLDPPAPLPLVIWHGMGDSCCNPLSMGAIKKMVEKKIPGIYVLSLEIGKT
LMEDVENSFFLVNSQVTTVCQALAKDPKLQQGYNAMGFSQGGQFLRAVAQRCPSPPMINLISVGGQHQG VFGLP
RCPGESSHICDFIRKTLNAGAYSKVVQERLVQAEYWHDP IKEDVYRNHSIFLADINQERGINESYKKNLMALKKF
VMVKFLNDSIVDPVDSEWFGFYRSGQAKETIPLQETSPLYTQDRGLGLKEMDNAGQLVFLATEGDHLQLSEWFYAH
IIPFLG

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FIGURE 178

CCTTACGGCCAGAAACGCCACCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGGCACCCG
ATACATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCATGTATATGCGAATCTATAAGAAAGG
TGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGTCCCACAAGTGTTACCATGGCAAAACTGG
AAGAGTCTACAATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAA
GAGAATTAATGTGTGTATTGAGCACATTAAGCACTCTAAAAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAA
TGATCCTCCACCCAGAGAAGCACAGTGTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAAACTATTCCCTA
TGAATTCATGGCATAATAGGTGTT

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FIGURE 179

MTNTKGKRRGTRYMF SRPFRKHGVVPLAMYMRIYKKGDIVDIKGMGTVQKGMSHKCYHGKTGRVYNVPQHAVGIV
V NKQVKGKILAKRINVCIEHIKHSKSRDSFLKRVKENDPPPRAQCVR TNGKEPELLETIPYEFMA

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FIGURE 180A

CGGACGCGTGGGCTGCTGCGGAGCCGGCAGCGCAGGCGGGCGGAGCGGAGCTGCCCCGTGGTGGCGGGCGATGC
CCCCGTGAGCCTCCCTCGCCGCCCTCCCCGCCCGCGTGCCCTATCCACTCGGAGTCCGCGCCAGCCTGGGGCCG
GGCCGCGCCTACTGCCGGGTTTCGCGGGGCGGGGTCCCGGGGCAGCACCTGCCCGCCTTGCGGAGCCGCTCGGC
CTGTGGAGGCCCCCTCCCTGTCTGGACCCCGGCCCCACCTCCGGACCCTTTTATCACATCGCCTCCTCTGGGAGC
CTGCCCTGATTGCCTTCACCTCATTCTTGAAAAATTGGTGTTTTGGCAGAAGTCAATTGAAGCCTTGTGCAAATG
CCCTAGGGGTGTGCTGTTGGGAGGCAGCCCCCTGTGATGCGGAACACCAGGCTCAGATTTCATCAGTTCGAGCTGC
CTGAGGCCCTGCCACCCCGGGGACCATGTTTAACGGGGAGCCAGGTCTGCTCATCTGGGGCCTCCAGGAATGT
GGTGGGAGCTCCAGCATTGGCGGTGAAATCTGCGGATCCCAGCAAGCCGGGGCGGGGCTGGGACCACCACCGC
CAAGAAGCGGGCGGAGCAGCCTGGGTGCCAAGATGGTGGCCATCGTGGGCCTGACTCAGTGGAGCAAGAGCACACT
CCAGCTTCCGCAGCCTGAAGGGGCCACCAAGAAGCTGCGCAGCAACATCCGCCGGAGCACGGAGACAGGCATCGC
GGTGGAGATGCGGAGCCGGGTACACGCCAGGGCAGCCGGGAGTCCACCGATGGGAGCACCAACAGCAACAGCTC
CGACGGCACGTTTCATCTTCCCCACTACCCGGCTAGGGGCTGAAAGCCAGTTCAGCGATTTCTGGATGGGCTGGG
ACCAGCTCAGATTGTGGGGCGACAGACACTGGCAACACCACCCATGGGAGATGTGCACATTGCCATCATGGACCG
GAGTGGCCAGCTGGAGGTGGAAGTGATTGAAGCTCGGGGCTGACCCCAAACCAGGCTCCAAATCCCTCCAGC
CACCTATATCAAGGTTTACCTGCTGGAGAATGGGGCCTGCTTGGCCAAGAAGAAGACAAAGATGACCAAGAAGAC
CTGTGATCCCCTGTACCAGCAGGCTCTGCTCTTTGACGAGGGACCCAGGGCAAGGTGCTGCAGGTGATCGTCTG
GGGAGACTATGGCCGCATGGACCACAAGTGCTTCATGGGCATGGCCCAGATCATGCTGGACGAGCTGGACCTCAG
CGCCGCGGTACCCGGCTGGTACAACTCTTCCCCACCTCCTCAGTGGCAGACTCCACACTCGGATCCCTCACCAG
GCGCCTGTCCAGTCTTCCCTGGAGAGTGCCACCAGCCCCCTCATGCTCTTAAGGATGTCAGGAAGAGGCCAGGAT
GGTGGTGTGGGGAGGGGTGCCTGCTGGCCCCATGTCTCTCCCTGTACATAGTCTTTCGTGCTTTCTGGACCCCTT
GTCCTGCTGCATGCCTGTTGGCTACTGGGCTCATCCCAGCTGGCAGTGGAGACTGTAGTGTGTGCGTGTGTGCGT
GCGTGTGTGTGTGTGTGTACGTGACCAGTTCTATCTGTTTATTGCTGGGTATAGTCACTCCTGGTGATGATA
TGGGCTGAAATGTCTCCACGTCTCTTTGTGCTTGTGAAAAGAAACCCAAAGGAGTGTGTGTGGACATGACTC
ACCCTGAGGAGTCTCCAGGATGGAGGTGGGGCATGCGGCCACTGGTTCGGTGCTGCCTGGTCTGCGCTGGGGCA
GAGCCTGTGTGTTCTTCACCTGTGCTGCTCCTGGTGGTCTCTGCTTTGTTTTCTGTCTTGTCTTTTGTCCACT
CTTGACTCTCCCGGCTCTGCCACTGTTTTCTGAGAAATGTAGCATCCGCTGCAGCTGGCCACACTGAGGGCCCTC
TGGGAACCCCAACCCACTGGAGCCGCTCCGGCAGCTCTTCTGCCACTGAATGCGTTCTGCAGCATGTAGCATGC
CCACCTAGCTCCCTGGCCAGGGCCCTGGGGAGGCAGAGGGTACCCAGGGGACTGAGGGCTTAGAAATGACTTTCT
CTATGAGGCTGGAACCTCCTCCTTCTTCCAGTGAAGCACGAGGTCTTGGTTCCAGGGTTCTGGCCAGGTGCCCC
CTTAGCATTTGTTCTTCATCTCCTGTCTCTTCAAGCCTCCCCACTCCACCGTGCCGAAGGAGCTCTGCCAGTGGG
CCTGGGCAGGCAGCCACAGAGGGCATGTTATCTGCTAAAGCAAACAGTCTCCTGAGGCCCTGAGGGTGGCCCTG
ACCCCTCAGGGCTCATTCTGGTGGGCATGACTCGGTAAGGAGGTTCTGTGGGTAGGGCTGTTTGTGGAATAA
GGAGGGCTGAGGCTGAGTTGTTCCCCGCCACTGTTGAGGATCCCATCTGACATTTGGGGATTCACTGCATGAAGT
TGTTCAATTTGGGGCTCCAGTTTTTGTGCATTTCCAGACCAGGGTCCCTGTCTGGGAGCTCAGACTTAGCTGGGCT
CCAGCAGCCTGGCTCCGGACTCTCGTCTGCCACCATCACCAGCTCTGTCTAAGCAATACTTACCCCTCCGGGCTT
CCCTGCTTTCTGTGCCCCACTGCTGCCCTCTGCAGAGCCATCTGCTCCAGGCACCCACCTGCCTCTGCTTGCTT
TCTACCCATGTCTGGTTGGAGCTTCTCACAGCCACTCAAACCTGACTTGATTGACAACTGGGCCCTGTTGGT
GGAGACCAGTGCCTGAACTGGACCCTGTGAAATCTGTCCCGTGGGAATCCTGAAGTCTGACTCAGGAATGCCAG
ACCTGTCCCTGTCCCTCCTCAGCTCTAGGGTGAAAGGCGAGAGGTTGCACAGGACATGGACAGAGCAGCCCTTGG
GTTTGTATCTGGTAGGGGAGAAAGCAGCAGGACAGTGGAGGTGTGTGGAAGGCACTCTTTCCACCTCTCTCCAGG
CATTATCCCAGGTGCTGAAATGGCTGTGGCCCCAGCACCTGAGGCAGGGGTACGCTACCTGGGGTAGCAGTAGA
AAGGTCTTGGGGTCTGAATGACTTGGGGCTCCATTCTATAACCAAAGTTGTAGGGGCATGGAGGCAGTGGCGCCT
TATGGATAGGTATCTCAGCCCAAAGGGCTCCTTGCTGGCATGGTTCTGTGTTACGTTGAAGCCAGAGTCTTA
TAACACCTCCCAAGAAAGATAGGGGAAGAAGCCAGAACCCACCTGGCCTGCCACAGGACAAGAAGTGGGTAA
GGCAGGAAGGAAATGAACGGAGTTAGCTCCAGGCTCCTATCTCTGCCTGAGCCTCTATTCTTATATTATCAGAG
AAAGGGACCATTGGGTGCATAGAGATGGGGAGGAGGCCACTGGGCTGAATTTTCTCTTTAGGCGGAAATGCTCTC
CCCAGGCCCATTGCGTTTCGTCAAGTTCTTGAAATGGACAAAGGGCTCTGTCTCTCGACCCTAGTGGGGGATC
AAGAAGGAACTCCGTTGCAAAAGGGTATTTTAATCTCCTGTTTATGATATATTACCTCTAGAGCAGTCACTGT

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FIGURE 180B

CAGGGTGTTCGAAAAATACTCTACACCTTTGGGATGATAGGGTTGTTAGTGACCCACAGGACAGTATAGATGTTT
GTGGATGTAGCACTGAGTGGTGATACCCAGACCAGCAGTCACCCAGGAAGTGGGGGCTACCCATACCCTCATT
CTCTGGTGGGGAGCTGCCTGCAGAGAGGCTGCCACTGGGGGTTCCAGGCCGTGGTGACCCCTTGCCCTCTGGGGAA
GGGTTAGCACAGGGGAGGTTCTAGCTGGAGGAGGGTCTGATGTGCTGGTAACCTTGGGCTGACCTACCTACAGTC
CCTGGCTGCCAAAACCTGCTCAGCAGTTGGGCCACTCCACTATTCCACCTCTCTAAAAGAAGGTAATTTCTCCTCCC
AAATTGACCTTGGGGAATTATTCTTTAACCCTTTGCACCAAATAAGTTACTCATCCCCACCTGGATTTTACCCC
ATGAGGGTAAAGTTGTGTGAGGCTGACACGCTGTGTGATGCAGTGTGGCTGCACCTAAGGGTCTGTTTCTCAGC
ATCATGGATGCAGGGGCTTGTCTGAAAAGCCACTCTGGACCTAGCCTGTCCCAGAAGAGGAGAATGCACAAGTGT
AACTCCTGGTTGTTTGTCTGGGGTGGGGGAGCATCTGCTGTTTGAGGACGGGGGTGGGGAAGGAAGGAACATGAT
CCCTCCAGAAGTCTCCACCCCTGGGGCCAACCTCACTGCCATGTTTCAGTGTCCCGGCTCCAAATGCCCCCTTGCCC
AGATGAAACCCTGCAGTGGTTACAGGAATGGAGCTCTTTGTCATTCCACCTCCTCTGGTCAGGCGAGGTTCACTG
TGCATATGGCAGAGACAGGAGTGGCCCTGCAGTGAITGTGGGTTGTGGGCAGGGACAGTGATGGATGACTCAGAG
CGTCTGTCTTTGTATTTCTGCTCTGTTCACTTCTGTCCCACCTTTCTTCATAGACTCCTTTTCCCTGCAATGGGTTT
TTGGTATGAAAAAGGCTCCAGTAAATGGAGCCAAGTCTTGGTTTGACAAGGGGAACCTTGATCCTTCAGGGAAGAA
TCATCTCCAAAATGACTCCCCATCTGGTTTCTTCTACCACCCAATTCTACTAGGAAAGGAGCACTTAGGAGGCTC
TTGGGATGCAGCAAGTCCCAGGCAATGCCAGCATTTCATGGGGGCTGAGGCAGAACCAGGAGCTCCAAGAAAGG
CCACCCATAGAGCTCATCTCTGTGGAATCACTGCCGGTTAGAACACTGAGGTCAAGCCAGTCTCCCATGGTCA
TGCCACCCACCAGGGAAGCATGCCTGATCTTCTTTACTGCCAGCCTTGAGGAGAGCAGAAGCCTCCATTTTTTA
AAGACAATAAAGACCTCCAAGGGTACTTCTTTGGAAATGAAATGTAGCACAATCTTAGCCTACGTTACCAGGAGC
CCTGACATGCAACCAGGGTCCCTCTTCCATGCCCTGCTGCCAGGAGTTGCTGAGCTCCTCTTCCCTGGGGTTC
CAGCCCTCCTAATACCTCATATTCCCCATCTTCTCAGCCCAGAAAGCAATGGGGCTTTAGTGATGCTCCTCTTT
TGTGTCTCTCTGGTTGCCTCTAGCACTGTGCAAACCTCTGCAAGAAATTGCTGCCTTTGCTTGATGTTGTAGATGA
GTTGCCCTCCACCTGGCTGGAGAGATGGCACATCATTACAGGGCCAGAAGGTTGTCCAGCAGTGTCTTCTGCAGTGG
CTGCAGGGAGATGGAAGAAGAGCCCTGCTTCCCTGCCTCCTCCTACCTTTCTCTTCCACTCCTCAGAGTTTTT
TTCTCCAGTATCCTGACATGTAAAGAGATTCTTTAAATGCTGCTTCTTCTACTGGACTGTCTTTCACTGAGTAG
TCAGGGAGGAGATGAAAATGTGGACACATCCCCCGCCTTCTCCCTCAACCTTTTCACTCACGTCAGAAGAGGTT
GGGGCAAACAAAACAAGCATGATTGAAGAGCAGGGGAAGCCACACAATCAGGTGAGCCCTGATGGGGGCTGGA
CTGGCCTGGTCTGGCTGGGAAAGGATTCTTTAAAGCGTGCCTGAGCATCTCAGAGCAATGTCAGTGATGCCAA
AGAGAGCAACTTGGCCTCCTTGGGCACCAACTCTGATGGCTGAGTTGCACAAACGTGGCTCAGATGTTGGCATGC
CCGATGGTGGGACCTTGTCTCTGTATAAAGGGCTTAATCTTTCCATGTAGCAAAGCAACTTTCCCTCCCTCCCT
CCCCCGAACCCTGAGCTTGGGCTTGTGTGGGCCAGCATGGCTGTGCCTGTGAGGGAAGCCACATCAGTGAGAG
AAAGTTGCATTCTCTCAGGGGCTAGATTGGCTTGGGGCAGGTGCTTGTGAAAAGCATGAGTGTCTGCTTTG
GGAAACCCTTCCAGGGCTCTGGTTGGAAACTTGGCCAGTAAGGACAGGGCCTTGGGCCTCCCAAGGAGTTCACAA
TGATGCCAGGAAGGGTCCCTGAGCCTGGGTTCAGTCAGCTTGGCTAACAGAATGGGGCTTGGGAATTCCAGGGG
CAACTGAGCATCCACCCATTAGCCAGTGATCTGGACAGGGACAGCTGGCTACAGGGAATCAAAGGCTGTTCTGT
ACAGTTTTACCAGAACTGTGACCTTGGGTAAGGCTCCTCACTTTTCTGGGCCTCAACTTCTCATCTGCAAAAT
CAGAGCATTAGCTGCTCTCCCATGATTCCCTCCCAGTTTAAATTAAAGTCTCTGATCTGGAGCACATGAGGGT
TGCGAGCCTGGTGCACCTGGTTTCTGTCTCCGTGGGCTGGTTTCTTCAGCCCCTGATGCCAGGCTGGGTGCAG
GCTCTCATCTGGTCCATGCCAGATGCTGCCTCAGACAAGAACTCTGGGAATCCTAACAGACTCTGCTTTCTCT
CTTCGTGGTTTGTCTCCCTCTTTTATTCTTGTGTAATGATGAGACATAATTAAGGGTCATCTACAATGGACAA
TTTCAAGGTGCTGATGTGATGTACAACTCCGCTACATCTGAGTAAGTCAGTGTCCCAACAGCAGATGAGGC
TGGGTCTTCTCATTTCTGCTTCTGGGATGACATCAGTGGGAGAGTTGAAGATCTGAGAATTCTAAAGGAAATG
TTCTCTGATGGGAGGAGAGAGGGAACCTTATTTCCCTTCAAAGTAGTTGCTTCTTAAGACCACTCCTCCCTCCAG
AATGTCTTTAACCAGACATCATTTCAGAAGGTGGGGCAGCTGCTTCCCTTAGGAAGAGTGGGCCTGATAGCTCAAC
CAACTCCTTTAGCATGTAAACTCACAGAAGGCAAGAACCCCTTTTTTTAGACTTTCCAAATGCATCCTGCAAGA
GAGAGATAGCTGATAGGGACTGACAAGCACACTGTTTAGATAAGAAGCAATTACCCTTTTATATCTGTGCTCTAT
ACATTTTCTATGTGCAGCATCTTTCCTAACTTGTGTGGTCCCGGGTGGCAGGTGCACAGCTGGGAGGGACTGC
CGGCTGTTTCGTACAACATTCTTGCCAATTCCCTTGAGGAGAAAAATTCTTCACATGGCTTCTGCATGTACAGTAT

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FIGURE 180C

TTGGGCAGCAAAACATGATTAAAGTCAGTTTGAAAATGG

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FIGURE 181

MFNGEPGPASSGASRNVVRSSSIGGEICGSQQAGGGAGTTTAKKRRSSLGAKMVAIVGLTQWSKSTLQLPQPEGA
TKKLRSNIRRSTETGIAVEMRSRVTRQGSRESTDGSTNSNSSDGTFFPTTRLGAESQFSDFLDGLGPAQIVGRQ
TLATPPMGDVHIAIMDRSGQLEVEVIEARGLTPKPGSKSLPATYIKVYLLENGACLAKKTKMTKKTCDPLYQQA
LLFDEGPQGKVLQVIVWGDYGRMDHKCFMGMAQIMLDELDSLAAVTGWYKLFPTSSVADSTLGSLTRRLSQSSLE
SATSPSCS

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FIGURE 182

AAGCTGCTGACATCCTGGATCTAGGGTTGTAAAGAAGATTACATGAGCTAATGGATGTGAAAACATCTTAAAAAC
TCTCAAATACTTTTCAACTTTGGAGGATTATTATGATTTTCATTCTGTTTCAGCGGCTATACTCAGACTTTACTCT
AAAAGTCAAATCTTCTGACATTCTTTGAAGTGAAGCATTCTATGAATGTGAGCTGAAGAAATGAATGAAATGAAA
TAATGCAGCATCTAGTGCTTTTTGTCATGGCCCAAAGGGGCTCTGTGCTGCTCCACTACAGAGGAACTTCAAGAA
ATGCTGGTTTGTACAGTGTTTTAGCTTGTGAGATTCTCTGGGACCTTCCCTGCTCCATCATGGGGTCACCTCTA
GGTCATTTTACCTGGGACAAATACCTAAAAGAAACATGTTTCAGTCCCAGCGCCTGTCCATTGCTTCAAGCAGTCC
TACACACCTCCAAGCAACGAGTTCAAGATCAGTATGAAATTGGAAGCACAGGACCCAGGAACACCACATCCACC
TGTATTGCCACAGTAGTTGGACTGACAGGTGCCCCGCTTCGCCTGCGCCTTGATGGGAGCGACAACAAAATGAC
TTCTGGCGGCTGGTTGACTCAGCTGAAATCCAGCCTATTGGGAAGTGTGAAAAGAATGGGGGTATGCTACAGCCA
CCTCTTGATTTCGGCTGAATGCGTCTTCTTGGCCCATGTTCTTTTGAAGACGCTAAATGGAGCAGAGATGGCT
CCCATCAGGATTTTCCACAAGGAGCCACCATCGCCTTCCACAACCTTCTTCAAATGGGAATGAAGCTAGAAGCT
GTGGACAGGAAGAACCCTCATTTCATTGCCCAGCCACTATTGGGGAGGTTTCGGGGCTCAGAGGTGCTTGTCACT
TTTGATGGGTGGCGAGGGGCTTTGACTACTGGTGCCGCTTCGACTCCCGAGACATCTTCCCTGTGGGCTGGTGT
TCCTTGACTGGAGACAACCTGCAGCCTCCTGGCACCAAAGTTGTGATTCCAAAGAATCCCTATCCTGCCTCCGAT
GTGAATACTGAGAAGCCAGCATCCACAGCAGCACCAAACTGTCTTGGAACATCAACCAGGGCAGAGGGGGCGT
AAACCAGGAAGAAGCGGGGCCGACACCCAAGACCTAATTTCCCATCCCATCTCTGCCCCATCCAAGACAGCT
GAACCTTTGAAATTCCCAAAGAAGAGAGGTCCCAAACCTGGCAGCAAGAGGAAACCTCGGACTTTGCTGAACCCA
CCACCTGCCTCACCAACAACCAGCACTCCTGAACCGGATACCAGCACTGTACCCAGGATGCTGCCACCATCCCC
AGCTCAGCCATGCAGGCCCAACAGTTTGTATCTACTTGAACAAGAATGGCAGCACAGGCCCCCACTTAGATAAG
AAGAAGGTCCAGCAACTCCCTGACCATTTTGGACCAGCCCGTGCCCTCTGTGGTGTGTCAGCAGGCTGTCCAGGCC
TGTATCGACTGTGCTTATCACCAGAAAACCGTCTTCAGCTTCTCAAGCAAGGCCATGGTGGTGAGGTTATCTCA
GCCGTGTTTGACCGGGAACAGCATACCCTCAACCTCCCAGCAGTCAACAGCATCACCTACGTCTCCGCTTCCTG
GAGAACTCTGCCACAACCTTCGTAGTGACAATCTGTTTGGCAACCAGCCCTTTACACAGACTCACTTGTCACTC
ACTGCCATAGAGTACAGCCACAGCCACGACAGGTACCTACCAGGTGAAACCTTTGTCTGGGGAATAGTCTGGCC
CGCTCCTTGAACACACTCAGACTCAATGGACTCTGCCTCAAATCCCACCAACCTTGTACAGCACTCCCCAAAGG
CACCGGCCCTTGCTTTTCATCCTGTGGCCTCCCACCAAGCACTGCCTCAGCTGTGCGCAGGCTATGCTCCAGGGGA
GTGTTAAAGGATCAAATGAAAGAAGGGATATGGAATCATTTTGGAAACTAAATCGTTCCCCAGGGTTCGGACCGA
TACCTGGAGAGCCGCGATGCCTCTCGACTGAGTGGCCGGGACCCCTCCTCATGGACAGTCGAGGATGTGATGCAG
TTTGTCCGGGAAGCTGATCCTCAGCTTGGACCCACGCTGACCTGTTTTCGAAACACGAGATCGATGGCAAGGCC
CTGCTGCTGCTGCGCAGTGACATGATGATGAAGTACATGGGCCTGAAGCTGGGGCCTGCACTCAAGCTCTCTAC
CACATTGACCGCTGAAGCAGGGCAAGTTCTGAACCAGGAGAGGCAGCCTAGACAACCAAGTGGCAGCAGGTGGG
GGCATTCTTCTAGGAATGAGGGGCATCAGCCCACCCAGGCACCTCAGTGGGGTTCCGGGGCCACCTCAGGACTCC
AAGAGGCTGTGTGGAGCCACCACTCCTAGCCACAGCTGCCATGATAAGTCCTTCCATGAAGGACTGAGGAGGGAG
AGTGGGGGTCCAGGGCTGGTGTCTCTTCCCTCAGCTCTGCCGGGGCTCTAAGGTCCCTCTATTTATTTCTCAA
CCCTGGCTGGCCTCTCACCAGGAGTTTAGGCTGAATGCCTTCCACGTGATGGAGGAAAAGGCCAACTCTGTCTG
GTCTTGCTGTGGCACCCCATCGCCCCACAGCTCGTACCTTCTCACCAGATTCCCCTGAATCCAACTCGTGGTGC
AAACCTCTACCTTTTTTACAAAAAGATCTTATTGTTAATTTATTGTTTCTGGCACTTGGGCAAACCTGTAGTTA
ATACTCCTCCCACACTAGACACTGGGTTTCAGGAGGAGGAGACTGCCCTGCTTTGGTCCCAGAGAGGCCCTCTG
CAGATAGGCGTGGCCCCCTTTCAGAGGACACTACCCTAGGGCACTTTCTCTTTGAGGTGGAGAGACCCATAAAGC
CTTGACCACATCACTCCATATGGGGAGGAGAAGGATCCCTGTACCTTCTCCTCTCTTACGGGGCCCTTTTGCA
GCCCTAGGCCTCATCTGTGGGAAGGGAGTCCCTGGCTTATACTGCCCCACACAGCTCCTTGCCCTGGCCAGAA
CTGCTGTGCAAGAAAATCAGGCCGGAAGGCCAAGAAGGCGCTAAGGGGGATGGGAGGGCAGGTTTCCAGGCTGG
AGTCGGTTCCACCCACTCGCCTGTCCACAGGCTTCCTTGTAAGCAAGTCAGCAGCACAGCTACTCACGCTGCCAT
CTGGACTTATTTTATGTCAATCTGTTTATAAATAAAAACCAATATAGAT

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FIGURE 183

GCTGCAGATGGCGGAAATGGATCCGGTAGCCGAGTTCCCCAGCCTCCCGGTGCTGCGCGCTGGGCTGAGGTTAT
GGCTCGCTTCGCGGCCAGGCTGGGCGCGCAGGGCCGGTGGTGTGGTTACGTCAGGCGGCACCAAGGTCCC
ACTGGAAGCGCGGCCGGTTCGCTTCTGGACAACTTCAGCAGCGGGCGGCGGGTGCAACCTCGGCCGAGGCCTT
CCTAGCCGCCGGCTACGGGGTCTGTTCCTTGTATCGCGCTCGCTCTGCCTTCCCCTATGCCACCGCTTCCCACC
CCAGACTTGGCTGTCCGCTCTGCGGCCCTTCGGGCCCAGCCCTTTCGGGCTTGCTGAGCCTGGAGGCCGAGGAGAA
TGCACTTCCGGGTTTTGCTGAGGCTCTGAGGAGCTACCAGGAGGCTGCGGCTGCAGGCACCTTCTGGCAGTAGA
GTTACCACTTTGGCGGACTATTTGCATCTGTTGCAGGCTGCGGCCAGGCACTCAATCCGCTAGGCCCTTCTGC
GATGTTTTACCTGGCTGCGGCTGTGTCAGATTTCTATGTTTCTGTCTCTGAAATGCCTGAACACAAGATCCAGTC
ATCTGGGGGCCCCACTGCAGATAACAATGAAGATGGTGCCAAAAGTCTTCTCCTTTGGTTAAAGATTGGGCTCC
CAAAGCATTTATAATTTCTTTAAGTTGGAGACTGACCCCGCCATTGTAATTAATCGAGCTCGGAAGGCTTTGGA
AATTTATCAGCATCAAGTGGTGGTGGCTAATATCCTTGAGTCACGACAGTCCTTTGTGTTTATTGTAACCAAAGA
CTCGGAAACCAAGTTATTGCTATCAAGGAAGAAATAGAAAAAGGCGTAGAGATAGAAGAGAAGATAGTGGATAAT
CTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAACTGAAGTAAAAAGCCCTTATAGGATTAAAAATTGTTT
AGGGCTCTTAGAGATGGTGAAGAACTACAAAAAAACCATGGCTTTTATATGGACAGAGAAAATGAAAGAAAGGGA
AAAGGCAGTGGTGTGTAGGCAATATGGTTTTGGCATTTCGTCTTTTAAATGACACCTGATATGATGTCATTTTGATT
TTGAAATTGAACACTAGAACTGTTAATCACCTTTAAAAAGAAGAGCTTATTGGGAATTATATATTCCTTAAAATA
TACATGGGGGCGCTGAATGTCAGCCATCTTTATACTATAGAAAAAGGATTATGGATGCATGAATGGTCATGCTTTG
GAGATCAAATATTTGGTTGAATGCCTATGTATGTCAGGCCCTGTGCTGAGCCATGAGGATTAAAAAGATGAATAAA
CATATCTTGTTTAGGAAATGGATGTATAAAAAAATCAAGTGCAATAAAGTGTGTGTCCAAAAGCTGACACAATGG
AAAGG

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FIGURE 184

MAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVVLVTSGGTKVPLEARFVRFLDNFSSGRRGATSAEAFLA
AGYGVLFYLRARSAPFYAHRFPQTWLSALRPSGPALSGLLSLEAEENALPGFAEALRSYQEAAAAGTFLAVEFT
TLADYLHLLQAAAQALNPLGPSAMFYLAHAVSDFYVPVSEMPEHKIQSSGGPLQITMKMVPKLLSPLVKDWAPKA
FIISFKLETDPAIVINRARKALEIYQHQQVVANILESRSQSFVFIIVTKDSETKLLLSRKK

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FIGURE 185

CGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCCGCCGGCCTAGTTACCATCACACCCC
GGGAGGAGCCGCAGCTGCCGCAGCCGGCCCCAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACCCAGC
AGCCGCCCCGCCGCCCCCCCCGCCGCCGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCGGCG
CAGGGAGCGGTGGCCCCGGCGGCCTCACATCGGCGGCGCCTGCCGGCGGGGACAAGAAGGTCATCGCAACGAAGG
TTTTGGGAACAGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATG
TATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAGTACCTTCGCAGTGTTAGGAGATGGAGAGACTG
TGGAGTTTGATGTTGTTGAAGGAGAAAAGGTTGCGGAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCAGTTC
AAGGCAGTAAATATGCAGCAGACCCGTAACCATTATAGACGCTATCCACGTCGTAGGGGTCTCCACGCAATTACC
AGCAAATTACCAGAAATAGTGAGAGTGGGGAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCAAC
AACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGCGTCGACCACAGTATT
CCAACCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAAGGAGAACAAAGGTAGACCAGTGA
GGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTCGCCAAAGACAGCCTAGAGAGGACG
GCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCA
ACTTCAATTACCGACGCAGACGCCAGAAAACCCTAAACCACAAGATGGCAAAGAGACAAAAGCAGCCGATCCAC
CAGCTGAGAATTCTGTCCTCCGCTCCCGAGGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATC
ATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAAGATTGGAGCTGAAG
ACCTAAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTT
TATTATTTTTTACCTAAAGACGTCTCTTTTTTGGTAATAACAAACGTGTTTTTTAAAAAAGCCTGGTTTTTCTCAAT
ACGCCTTTAAAGG

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FIGURE 186

MSSEAETQQPPAAPPAAPALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGF I
NRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAAANVTGPGGVPVQGSKYAADRNHYRRYPR
RRGPPRNYQQNYQNSGESGEKNEGSESAPEGQAQORRPYRRRRFPPYYMRRPYGRRPQYSNPPVQGEVMEGADNQG
AGEQGRPVRQNMRYRGYRPRFRRGPPRQRQFPREDGNEEDKENQGDETQGQQFPQRRYRRNFNYRRRRRPENPKPDG
KETKAADPPAENSSAPEAEQGGAE

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FIGURE 187

GGCGGGTGGCTGGCGGTTCCGTTAGGTCTGAGGGAGCGATGGCGGTACGCGCGTTGAAGCTGCTGACCACACTGC
TGGCTGTGCTGGCCGCTGCCTCCCAAGCCGAGGTCGAGTCCGAGGCAGGATGGGGCATGGTGACGCCTGATCTGC
TCTTCGCCGAGGGGACCGCAGCCTACGCGCGCGGGGACTGGCCCCGGGTGGTCTGAGCATGGAACGGGCGCTGC
GCTCCCGGGCAGCCCTCCGCGCCCTTCGCTGCGCTGCCGCACCCAGTGTGCCGCCGACTTCCCGTGGGAGCTGG
ACCCGACTGGTCCCCCAGCCCGGCCAGGCCTCGGGCGCCGCCGCCCTGCGCGACCTGAGCTTCTTCGGGGGCC
TTCTGCGTCGCGCTGCCTGCCTGCGCCGCTGCCTCGGGCGCCGCCGCCCTGCGCGACCTGAGCTTCTTCGGGGGCC
TGGAGTTCGCGAAGCGGAGCCCTACAACCTACCTGCAGGTGCGCTACTTCAAGATCAACAAGTTGGAGAAAGCTG
TTGCTGCAGCACACCTTCTTCGTGGGCAATCCTGAGCACATGGAAATGCAGCAGAACCTAGACTATTACCAA
CCATGTCTGGAGTGAAGGAGGCCGACTTCAAGGATCTTGAGACTCAACCCCATATGCAAGAATTCGACTGGGAG
TGCGACTCTACTCAGAGGAACAGCCACAGGAAGCTGTGCCCCACCTAGAGGCGGCGCTGCAAGAATACTTTGTGG
CCTATGAGGAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAACCTACCTTGAGTACAACGCTG
ACCTCTTCCAGGCCATCACAGATCATTACATCCAGGTCTCAACTGTAAGCAGAACTGTGTACGGAGCTTGCTT
CCCACCCAAGTCGAGAGAAGCCCTTTGAAGACTTCTTCCATCGCATTATAATTATCTGCAGTTTGCTACTATA
ACATTGGGAATTATACACAGGCTGTTGAATGTGCCAAGACCTATCTTCTTCTTCCCCAATGACGAGGTGATGA
ACCAAAATTTGGCCTATTATGCAGCTATGCTTGGAGAAGAACACACCAGATCCATCGGCCCCCGTGAGAGTGCCA
AGGAGTACCGACAGCGAAGCCTACTGGAAAAAGAACTGCTTTTCTTCGCTTATGATGTTTTTGGAAATCCCTTTG
TGGATCCGGATTTCATGGACTCCAGAAGAAGTGATTCCCAAGAGATTGCAAGAGAAACAGAAGTCAGAACGGGAAA
CAGCCGTACGCATCTCCAGGAGATTGGGAACCTTATGAAGGAAATCGAGACCCTTGTTGAAGAGAAGACCAAGG
AGTCACTGGATGTGAGCAGACTGACCCGGGAAGGTGGCCCCCTGCTGTATGAAGGCATCAGTCTCACCATGAACT
CCAAACTCCTGAATGGTTCCAGCGGTTGGTGATGGACGGCGTAATCTCTGACCACGAGTGTGAGGAGCTGCAGA
GACTGACCAATGTGGCAGCAACCTCAGGAGATGGCTACCGGGGTGAGACCTCCCCACATACTCCCAATGAAAAGT
TCTATGGTGTCACTGTCTTCAAAGCCCTCAAGCTGGGGCAAGAAGGCAAAGTTCTCTGAGAGTGCCACCTGT
ACTACAACGTGACGGAGAAGGTGCGGCGCATCATGGAGTCTACTTCCGCTGGATACGCCCCCTCTACTTTTCT
ACTCTCATCTGGTGTGCCGCACTGCCATCGAAGAGGTCCAGGCAGAGAGGAAGGATGATAGTCATCCAGTCCACG
TGGACAACCTGCATCCTGAATGCCGAGACCCTCGTGTGTGTCAAAGAGCCCCCAGCCTACACCTTCCGCGACTACA
GCGCCATCCTTTACCTAAATGGGGACTTCGATGGCGGAACTTTTATTTCACTGAACTGGATGCCAAGACCGTGA
CGGCAGAGGTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTCTCAGGCACTGAAAACCCACATGGAGTGAAGG
CTGTCACCAGGGGGCAGCGCTGTGCCATCGCCCTGTGGTTCACCCCTGGACCCTCGACACAGCGAGCGGGTGAGAG
CAGCTCGAGCGGGTGAGAGCAGCTGGTGTGTGGTGACCGTTCCAGAGCGCCCTTGTTTTGCCTTTCTCTTCC
CCAAATCCCATTGCCAGTGGCTGAGACACGAAAGGAGCACTTGGGACACCAGCTCCAACGCCCTGTCATTATGGT
CACATTGCCTTGTCTCCTGGGCCTGCTGTGAACGGGATCCAGGTGGGGAAAGAGGTCAAGACAGGGAGCGATG
CTGAGTTCTTGGTTCCCTCCTTGGGCCCCACTTCAGCTGTCTTTTCCAGAGAGTAGGACCTGCTGGGAAGGAGA
TGAGCCTGGGGCCATTAAGGAACCTTCCCTTGCCCCCTGGGAAGTAGCAGCTGAGAGATAGCGAGTGTCTGGAGCG
GAGGCCTCTCTGAATGGGCAGGGGTTTGTCTTGCAGGACAGGGTGAGGCAGATGACCTGGTGAAGATGCTCTT
CAGCCCAGAAGAGATGGACCTCTCCAGGAGCAGCCCTGGATGCCAGCAGGGTCCCCCGAACCTGCACAAGA
GTCTCTCTCAGGCAGTGAATCGAAGCCCAAGGATGAGCTATGACAGCGTCCAGGTGAGACGGATGGGTGACTAGA
CCCATGGAGAGGAACCTTTCTGCACTCTGAGCTGGCCAGCCCTCGGGGCTGCAGAGCAGTGAGCCTACATCTGC
CACTCAGCCGAGGGGACCCTGCTCACAGCCTTCTACATGGTGTACTGCTCTTGGAGTGGACATGACCAGACACC
GCACCCCTGGATCTGGCTGAGGGCTCAGGACACAGGCCAGCCACCCCGAGGGGCTCCACAGGCGCTGCATG
ACAGCGATACAGTACTTAAGTGTCTGTGTAGACAACCAAAGAATAAATGATTCATGGTTTTTTTT

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FIGURE 188

TAGTCGCGGGTCCCCGAGTGAGCACGCCAGGGAGCAGGAGACCAAACGACGGGGGTTCGGAGTCAGAGTCGCAGTG
GGAGTCCCCGGACCGGAGCACGAGCCTGAGCGGGAGAGCGCCGCTCGCACGCCCCGTGCCACCCGCGTACCCGGC
GCAGCCAGAGCCACCAGCGCAGCGCTGCCATGGAGCCCAGCAGCAAGAAGCTGACGGGTGCGCTCATGCTGGCTG
TGGGAGGAGCAGTGCTTGGCTCCCTGCAGTTTGGCTACAACACTGGAGTCATCAATGCCCCCAGAAGGTGATCG
AGGAGTTCTACAACCAGACATGGGTCCACCGCTATGGGGAGAGCATCCTGCCACCACGCTCACCACGCTCTGGT
CCCTCTCAGTGGCCATCTTTTCTGTTGGGGGCATGATTGGCTCCTTCTCTGTGGGCCTTTTCGTTAACCGCTTTG
GCCGGCGGAATTCAATGCTGATGATGAACCTGCTGGCCTTCGTGTCCGCCGTGCTCATGGGCTTCTCGAACTGG
GCAAGTCCTTTGAGATGCTGATCCTGGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACCACAGGCTTCGTGC
CCATGTATGTGGGTGAAGTGTACCCACAGCCTTTCGTGGGGCCCTGGGCACCCTGCACCAGCTGGGCATCGTCG
TCGGCATCCTCATCGCCAGGTGTTTCGGCCTGGACTCCATCATGGGCAACAAGGACCTGTGGCCCTGCTGCTGA
GCATCATCTTCATCCCGCCCTGCTGCAGTGCATCGTGTGCCCTTCTGCCCCGAGAGTCCCCGCTTCCTGCTCA
TCAACCGCAACGAGGAGAACCAGGGCCAAGAGTGTGCTAAAGAAGCTGCGCGGGACAGCTGACGTGACCCATGACC
TGCAGGAGATGAAGGAAGAGAGTCGGCAGATGATGCGGGAGAAGAAGGTCACCATCCTGGAGCTGTTCCGCTCCC
CCGCTTACCGCCAGCCCATCCTCATCGCTGTGGTGTGCTGCAGCTGTCCAGCAGCTGTCTGGCATCAACGCTGTCT
TCTATTACTCCACGAGCATCTTCGAGAAGGCGGGGGTGCAGCAGCCTGTGTATGCCACCATTGGCTCCGGTATCG
TCAACACGGCCTTCACTGTCTGTGCTGTTTGTGGTGGAGCGAGCAGGCCGGCGGACCCTGCACCTCATAGGCC
TCGCTGGCATGGCGGGTGTGCCATACTCATGACCATCGCGCTAGCACTGCTGGAGCAGCTACCCTGGATGTCTCT
ATCTGAGCATCGTGGCCATCTTTGGCTTTGTGGCCTTCTTTGAAGTGGGTCTGGCCCCATCCCATGGTTTCATCG
TGGCTGAACTCTCAGCCAGGGTCCACGTCCAGCTGCCATTGCCGTTGCAGGCTTCTCCAAGTGGACCTCAAATT
TCATTGTGGGCATGTGCTTCCAGTATGTGGAGCAACTGTGTGGTCCCTACGTCTTCATCATCTTCACTGTGCTCC
TGGTCTGTCTTTCATCTTCACCTACTTCAAAGTTCCTGAGACTAAAGGCCGGACCTTCGATGAGATCGCTTCCG
GCTTCCGGCAGGGGGGAGCCAGCCAAAGTGATAAGACACCCGAGGAGCTGTTCCATCCCCTGGGGGCTGATTCCC
AAGTGTGAGTCGCCCCAGATCACCAGCCCGGCCTGCTCCCAGCAGCCCTAAGGATCTCTCAGGAGCACAGGCAGC
TGGATGAGACTTCCAAACCTGACAGATGTCAGCCGAGCCGGGCCTGGGGCTCCTTTCTCCAGCCAGCAATGATGT
CCAGAAGAATATTCAGGACTTAACGGCTCCAGGATTTTAAACAAAAGCAAGACTGTTGCTCAAATCTATTTCAGACA
AGCAACAGGTTTTATAATTTTTTTTATTACTGATTTTGTATTTTTTATATCAGCCTGAGTCTCCTGTGCCACATC
CCAGGCTTCAACCTGAATGGTTCCATGCCTGAGGGTGGAGACTAAGCCCTGTCGAGACACTTGCCTTCTTCAACC
AGCTAATCTGTAGGGCTGGACCTATGTCTAAGGACACACTAATCGAACTATGAACTACAAAGCTTCTATCCAG
GAGGTGGCTATGGCCACCCGTTCTGCTGGCCTGGATCTCCCCACTCTAGGGGTCAGGCTCCATTAGGATTTGCC
CTTCCCATCTCTTCTTACCCAACCACTCAAATTAATCTTTCTTTACCTGAGACCAGTTGGGAGCACTGGAGTGCA
GGGAGGAGAGGGGAAGGGCCAGTCTGGGCTGCCGGGTTCTAGTCTCCTTTGCACTGAGGGCCACACTATTACCAT
GAGAAGAGGGCCTGTGGGAGCCTGCAAACTCACTGCTCAAGAAGACATGGAGACTCCTGCCCTGTTGTGTATAGA
TGCAAGATATTTATATATATTTTTTGGTTGTCAATATTAAATACAGACACTAAGTTATAGTATATCTGGACAAGCC
AACTTGTAATAACACCACCTCACTCCTGTTACTTACCTAAACAGATATAAATGGCTGGTTTTTAGAAACATGGTT
TTGAAATGCTTGTGGATTGAGGGTAGGAGGTTTGGATGGGAGTGAGACAGAAGTAAGTGGGGTTGCAACCACTGC
AACGGCTTAGACTTCGACTCAGGATCCAGTCCCTTACACGTACCTCTCATCAGTGTCTCTTGCTCAAAAATCTG
TTTGATCCCTGTTACCCAGAGAATATATACATTCTTTATCTTGACATTCAAGGCATTTCTATCACATATTTGATA
GTTGGTGTTCAAAAAACACTAGTTTTGTGCCAGCCGTGATGCTCAGGCTTGAAATCGCATTATTTTGAATGTGA
AGGGAA

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FIGURE 189

MEPSSKKLTGRLMLAVGGAVLGSLQFGYNTGVINAPQKVIEEFYNQTWVHRYGESILPTTLTTLWSLSVAIFSVG
GMIGSFVGLFVNRFGRNSMLMMNLLAFVSAVLMGFSLGKSFEMILGRFIIIGVYCGLTTGFVPMYVGEVSPT
AFRGALGTLHQLGIVVGILIAQVFGLDSIMGNKDLWPLLLLSIIFIPALLQCIVLPFCPEsprfLLINRNEENRAK
SVLKKLRGTADVTHDLQEMKEESRQMMREKKVTILELFRSPAYRQPILIAVVLQLSQQLSGINAVFYSTSI FEK
AGVQQPVYATIGSGIVNTAFTVVSLEFVVERAGRRTLHLIGLAGMAGCAILMTIALALLEQLPWMSYLSIVAIFGF
VAFFEVGPPIPWFIVAELFSQGPRPAAIAVAGFSNWTSNFIVGMCQYVEQLCGPYVFIIFTVLLVLFFIFTYF
KVPETKGRTFDEIASGFRQGGASQSDKTPEELFHPLGADSQV

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FIGURE 190

CACGTCGTTTCACGGCCTTCTTCGGCCCCCTCTAGCACGACATTGAGGCCTGGCTTCAGAAGCCCTCGGGAAAACGC
ATCCTGCAACTCTCTGTCTGTGACAAGGGATTTCATCGGATTCCGACTCCGAATCCGAGAGCGGGGAGTGTCAT
CTCGCCGCACGCACGTCCCACACAGCTACTGCTCAACTTTTGATTGGGACTTCCGCTTCCGGCGGCAAACCATAC
TTCCGGTTTGTCTGTGCTATAGGAACCGCTACGGCGTTTGAAAGTGTCCGGGTTGCTTAGGATCCCTACAGGTAG
CGCCTCTGGATACATGCGTGGTCTGCTGACCCAGAGAGAAAACGAAAGCAGAACTGTTTGGCGGGAGATCATGTCA
GCCGTGGTAGCTCAGACGCTGCATGTTTTTGGTCTTCGATCCACGTGGCCAACAATATCTTCTACTTCGATGAA
CAGATCATTATATTTCTTCAGGAAATCACTGTGTGAAGTACAATGTGGATCAGAAATGGCAAAAATTCATTCCA
GGCTCAGAGAAGAGTCAGGGCATGTTGGCCTTGTCCATCAGTCCCAATCGGCGGTACCTCGCTATCTCTGAGACT
GTGCAAGAAAAACCTGCCATCACCATTATGAATTGTATCCATCCCTTGCCGGAAGCGCAAAGTTCTTAATAAT
TTTGACTTCCAAGTTCAGAAATTTATTAGCATGGCTTTTTCTCCAGACTCCAAATACCTATTGGCTCAGACGTCA
CCTCCAGAGTCAAATCTTGTCTACTGGCTGTGGGAAAAACAGAAAGTAATGGCCATTGTTAGAATCGACACTCAG
AACAACCCTGTCTACCAGGTGAGCTTCAGTCCACAGGATAACACTCAGGTGTGTGTCACTGGAAATGGGATGTTT
AAGCTTCTCCGTTTTGCTGAGGGAACCTTGAAGCAAACCAGCTTTCAGAGGGGAGAACCCCAAACTATCTAGCC
CACACCTGGGTGGCTGATGACAAGATTGTCTGTGGCACTGACACAGGCAAACCTCTTCTCTTTGAATCTGGAGAT
CAGCGTTGGGAGACCAGCATAATGGTCAAGGAACCTACCGATGGCTCAAAGAGCCTGGATGTCAATCAGGAATCA
GAGAGCCTGATTGAATTTCCACCAGTCAGTTCTCCACTCCCTTCCTATGAACAGATGGTGGCGGCCAGTAGCCAT
AGCCAGATGTCCATGCCCCAGGTGTTTGGCATTGCAGCCTATTCAAAGGGATTGCTGCTTCTGCTGGGCCAGGG
AGAGTTCTGCTGTTTGAAGAAGATGGAAGAAAAGGATTTTTACCGTGAGAGCAGAGAAATCAGGATTCTGTGGAC
CCGAGAGCAATGATCCAAGTCAGTCTGACAAACAGGACGTTCTCTGCCTGTGCTTCAGCCCCCTCAGAGGAACT
CTGGTTGCCAGCACAGTAAGAACCAACTCTACAGCATCACCATGTCCCTGACAGAGATCAGCAAGGGAGCCTGC
TCACTTTGAGTATTTGATGTATCCATTGCACTCAGCACCCATCACCGGTCTAGCTACCTGCATCCGCAAACCCCT
TATAGCCACCTGTTCTCTGGATCGATCCATCCGCCCTTGGAAATTATGAAACAAACACCCTGGAATATTTAAGGA
ATACCAAGAAGAGGCATATTCCATCAGCCTTCATCCATCTGGACACTTCATTGTAGTAGGGTTTGTGACAACT
ACGCCTCATGAATCTACTCATTGATGATATACGTTCTTTCAAAGAATACTCTGTTAGAGGATGCGGAGAGTGTTT
CTTTAGCAATGGAGGTCACCTGTTTGTCTGCACTCAATGGAAATGTGATTACGTTTTACACCACCAGAGCCTAGA
GAACATCTCAAGCCTGAAAGGACACACAGGGAAGATTGCGTCAATTGTGTGGAATGCAGATGATAGCAAACTGAT
TTCTGGTGGCACAGATGGTGTGTGTATGAATGGAATCTGTCCACAGGAAAGAGAGAGACGAATGCGTGCTCAA
GTCTTGCACTACAATGTGTTACTGTCTCCCCGATGCCAAAATTATCTTTGCTGTTGGATCAGACCACACCCCT
CAAGGAGATTGCAGATTCTTGCCTTCGAGAGATATCGGCGTTTGATGTACCTACACCGCCATTGTCTCTCGC
ATTCTGGACGCATGATGTTTGTGGGCACCTCGGTGGGAACCATTCGTGCCATGAAGTACCCTCTGCCTCTGCAGA
AGGAATTCATGAGTACCAGGCCCATGCCGCTCTATACCAAGGTGAGCAGGGCCCTCTCCCAGGAACCCAGT
CCCACACCTGCCTGCTACGTGCCTTGTTTCATCCCTCAACCTCCCAATGTCTTTCTCTCTCTCTCTCTCTCT
ATTTATTCATCCATCATTCAATTGAATCACCATCTATTGACTATGAATATACTCTTTGTTTAACTACTTCCAGGA
ATTTAGCCTAGGAAATCATCAGAGATACACCTAAAAATGTATGTACAACGTTTTACCATAATATTATGCATAAT
AAGGGGCCGTTTGGTGGATGCCGTAGCTGCCGTGAGTGTGGGCTGCACTTGACCACAGCTGCCTCCTCCTCCAGA
GAATGCCCCAGACTGAAAGGAGCCATAGCCCTGAAGATTGGCCCCCTACCTCTCCCTGAGGGTACAAAAGGCCACC
CCAGGGGCAATACCATGAGTACACATTTGTAAATTGTCTTCCATTACCCCTTCTCATAAAGTAGTATCTATGTT
CAACAGTCAAAATGTGGAAGCAACCAAGCATCCATCGACAGACGAATGCATAAGCAAAAGATGGTATATCTATAC
AATGGAACAATACCCTGCCTAAAAAGGAAGGGAATTCTGCAATGTGCTACCACATGGATGAACCTTGAGGATGTT
ATGCTAAATTAAATAAGGCCAACCACAAAAAGATAAGTACAGTGTGATTCCACTTTTAGGAGATACTTGGAGCAG
TCAGAAATCACAAAGACAGAGTGGTGGTTGGCAGGGGCTGCAGGAAGGGGGAATGAGGAATGATTGTTTCATAGGT
ATAGAGTTTTGTTTTACAAGACAAAAGGATTATGGGGGTAGTTGGTGGCAATGGCTGCACAACATTACAAATGT
ATTTAATAACATGAACGTGACACTTGAATGGTTAAGATAGCAAATTTTACAGAATATGTATTTTACGACAATT
TTAAAAATGAAATAAAAAAGAATTATCTTGC

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FIGURE 191

MSAVVAQTLHVFGLRSHVANNIFYFDEQIIIFPSGNHCVKYNVDQKWQKFIPGSEKSQGMLALSISPNRRYLAI
ETVQEKPAITIIYELSSIPCRKRKVLNNFDFQVQKFISMAFSPDSKYLLAQTSPPESNLVYWLWEKQKVMIVRID
TQNNPVYQVSFSPQDNTQVCVTGNGMFKLLRFAEGTLKQTSFQGEQNYLAHTWVADDKIVVGTDGKLFES
GDQRWETSIMVKEPTNGSKSLDVIQESLIEFPPVSSPLPSYEQMVAASSHSQMSMPQVFAIAAYSKGFACSAG
PGRVLLFEKMEEKDFYRESREIRIPVDPQSNQSDKQDVLCLCFSPSEETLVASTSKNQLYSITMSLTEISKG
EPAHFEYLMYPLHSAPITGLATCIRKPLIATCSLDRSIRLWNYETNTLELFKEYQEEAYSLHPSGHFIVVGFA
DKLRLMNLIDDIRSFKEYSVRGCCECSFSNGGHLFAAVNGNVIHVYTTTSLENISSLKGHTGKSLNCVECR

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FIGURE 192

GCGATTTCGGTGGCACGTGGAGCCACGGCGTGGGAGTAGGGGGCTGAAGGCAGGCAGCAGCGGCCAGGGCCGCCCT
CTGCTAGCCGCTTGGGTCTCGGGATACCCCGTTTCTTCCTGTAGGTGTGGGACGTGCGTGCGGCGAGATGGACAC
-TCCCCGCTCTCGGATTTCGGAGTCGGAATCCGATGAATCCCTTGTCACAGACAGAGAGTTGCAGGATGCGTTTTTC
CCGAGGGCTTCTGAAGCCAGGCCTCAATGTCGTGCTAGAGGGGCCGAAGAAGGCCGTGAACGACGTGAATGGCCT
GAAGCAATGTTTGGCAGAATTCAAGCGGGATCTGGAATGGGTTGAAAGGCTCGATGTGACACTGGGTCCGGTACC
GGAGATCGGTGGATCTGAGGCGCCAGCACCTCAGAACAAGGACCAGAAAAGCTGTTGATCCAGAAGACGACTTCCA
GCGAGAGATGAGTTTCTATCGCCAAGCCCAGGCCGCAGTGCTTGAGTCTTACCCCGCCTCCATCAGCTCAAAGT
CCCTACGAAGCGACCCACTGATTATTTTGCGGAAATGGCCAAATCTGATCTGCAGGTGCAGAAGATTCGACAGAA
GCTGCAGACTAAACAGGCTGCCATGGAGAGGTCTGAAAAAGCTAAGCAACTGCGAGCACTTAGGAAATACGGGAA
GAAGGTGCAAACGGAGGTTCTTCAGAAGAGGCAGCAGGAGAAAGCCCATATGATGAATGCTATTAAGAAATATCA
GAAAGGCTTCTCTGATAAACTGGATTTCTTGAGGGAGATCAGAAACCTCTGGCACAGCGCAAGAAGGCAGGAGC
CAAAGGCCAGCAGATGAGGAAGGGGCCAGTGCTAAACGACGGTATAAAAACCAGAAGTTTGGTTTTGGTGGAAA
GAAGAAAGGCTCAAAGTGGAACACTCGGGAGAGCTATGATGATGTATCTAGCTTCCGGGCCAAGACAGCTCATGG
CAGAGGCCTCAAGAGGCCTGGCAAGAAAGGGTCAAATAAGAGACCTGGAAAACGAACAAGAGAGAAGATGAAGAA
CAGAACACACTAAATAGCATCTTTGAATACAAAGAACCAAGAAAAAGGAATGAAGACTCGCAATTTACGACACA
CTTTGATCCCTTCTGTTGGTGTGATGTTGTAAACATTTCTTTCAATAAACTAAAGAAAAATTATTAAAGGAACAC
ATACCTTTGGTTAAATAGTCTAGACTAAAAGATTGAGAAGTTACTTTCCATTGCTATCTATTGATAATTTAGACA
TTGAGTTCAAATTGCCTTCATTTTATGATAAATAATGATTTAACTGAAAA

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FIGURE 193

MDTPPLSDSESESDSLVTDRELQDAFSRGLLKPGNLNVVLEGPKKAVNDVNGLKQCLAEFKRDLEWVERLDVTLG
PVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVLPRLHQLKVP TKRPTDYFAEMAKSDLQVQKI
RQKLQTKQAAMERSEKAKQLRALRKYGKKVQTEVLQKRQQEKAHMMNAIKKYQKGFSDKLDFLEGDQKPLAQKK
AGAKGQOMRKGFSAKRRYKNQKFGFGGKKKGSKWNTRESYDDVSSFRAKTAHGRGLKRP GKKGSNKRPGKRTREK
MKNRTH

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FIGURE 194

CCACGCGTCCGGGCGTAAGCCAGGCGTGTTAAAGCCGGTCGGAAGTCTCCGGAGGGCACGGGCTCCGTAGGCAC
CAACTGCAAGGACCCCTCCCCCTGCGGGCGCTCCCATGGCACAGTTCGCGTTCGAGAGTGACCTGCACTCGCTGC
TTCAGCTGGATGCACCCATCCCCAATGCACCCCTGCGCGCTGGCAGCGCAAAGCCAAGGAAGCCGCAGGCCCCG
CCCCCTCACCCATGCGGGCCGCCAACCGATCCCACAGCGCCGGCAGGACTCCGGGGCCGAAGTCTGGCAAATCCA
GTTCCAAGGTTGAGACCACTCCTAGCAAACCTGGCGGTGACCGCTATATCCCCCATCGCAGTGCTGCCCAGATGG
AGGTGGCCAGCTTCCTCCTGAGCAAGGAGAACCAGTCTGAAAACAGCCAGACGCCCACCAAGAAGGAACATCAGA
AAGCCTGGGCTTTGAACCTGAACGGTTTTGATGTAGAGGAAGCCAAGATCCTTCGGCTCAGTGGAAGAACACAAA
ATGCGCCAGAGGGTTATCAGAACAGACTGAAAGTACTCTACAGCCAAAAGGCCACTCCTGGCTCCAGCCGGAAGA
CCTGCCGTTACATTCTTCCCTGCCAGACCGTATCCTGGATGCGCCTGAAATCCGAAATGACTATTACCTGAACC
TTGTGGATTGGAGTTCTGGGAATGTACTGGCCGTGGCACTGGACAACAGTGTGTACCTGTGGAGTGCAAGCTCTG
GTGACATCCTGCAGCTTTTGCAAATGGAGCAGCCTGGGGAAATATATATCCTCTGTGGCCTGGATCAAAGAGGGCA
ACTACTTGGCTGTGGGCACCGAGTGTGAGGTGCAGCTATGGGATGTGCAGCAGCAGAAACGGCTTCGAAATA
TGACCAGTCACTCTGCCCAGTGGGCTCCCTAAGCTGGAACAGCTATATCCTGTCCAGTGGTTACGTTCTGGCC
ACATCCACCACCATGATGTTTCGGGTAGCAGAACACCATGTGGCCACACTGAGTGGCCACAGCCAGGAAGTGTGTG
GGCTGCGCTGGGCCCCAGATGGACGACATTTGGCCAGTGGTGGTAATGATAACTTGGTCAATGTGTGGCCTAGTG
CTCCTGGAGAGGGTGGCTGGGTTCTCTGCAGACATTACCCAGCATCAAGGGGCTGTCAAGGCCGTAGCATGGT
GTCCCTGGCAGTCCAATGTCTGGCAACAGGAGGGGGCACCAGTGATCGACACATTCGCATCTGGAATGTGTGCT
CTGGGGCCTGTCTGAGTGCCGTGGATGCCCCATTCCCAGGTGTGCTCCATCCTCTGGTCTCCCCATTACAAGGAGC
TCATCTCAGGCCATGGCTTTTGACAGAACCAGCTAGTTATTTGGAAGTACCCAACCATGGCCAAGGTGGCTGAAC
TCAAAGGTCACACATCCCGGGTCTGAGTCTGACCATGAGCCCAGATGGGGCCACAGTGGCATCCGCAGCAGCAG
ATGAGACCCTGAGGCTATGGCGCTGTTTTGAGTTGGACCCTGCGCGGCGGCGGGAGCGGGAGAAGGCCAGTGCAG
CCAAAAGCAGCCTCATCCACCAAGGCATCCGCTGAAGACCAACCCATCACCTCAGTTGTTTTTTATTTTTCTAAT
AAAGTCATGTCTCCCTTCATGTTTTTTTTTTTAAAA

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FIGURE 195

MAQFAFESDLHSLQLDAPIPNAPPARWQRKAKEAAGPAPSPMRAANRSHSAGRTPGRTPGKSSSKVQTTPSKPG
GDRYIPHRSAQMEVASFLLSKENQSENSQTPTKKEHQKAWALNLNGFDVEEAKILRLSGKQPQNAPEGYQNRLKV
LYSQKATPGSSRKTCRYIPSLPDRIIDAPEIRNDYYLNLVDWSSGNVLAVALDNSVYLWSASSGDILQLLQMEQP
GEYISSVAWIKEGNYLAVGTSSAEVQLWDVQQQKRLRNMTSHSARVGSLSWNSYILSSGSRSGHIHHHDVRVAEH
HVATLSGHSQEVCGLRWAPDGRHLASGGNDNLVNVWPSAPGEGGWVPLQFTQHQGAVKAWCPWQSNVLATGG
GTSDRHIRIWNVCSGACLSAVDAHSQVCSILWSPHYKELISGHGFAQNQLVIWKYPTMAKV AELKGHTSRVLSLT
MSPDGATVASAAADETLRLWRCFELDPARRREREKASAAKSSLIHQGIR

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FIGURE 196

GGCACGAGGGAACCGTCCGCAGCCGCCGGAGCCGGGAGCCCTGCCCAAGTCGGAGCGGCGTCCCCTGCTGAGCCC
CGAGCGCCGGGCCAGCAGCCGGATGCCCGGGCCCACTGGGCGGGCCAGTGGCCGCCTGCGGGATGAGCAGACTGC
TGGGGGGGACGCTGGAGCGCGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACTTCCTCGTGGCCGTATCC
TCTACTTTGACGTCTACGCCAGCACCTGGCCTTCTTCAGCCGCTTCAGTGGCCGAGGCCCTGCCATGCCCTCC
ACCCAGCTGCTAGCAGCAGCAGCAGCAGCAACTGCTCCCGGCCAACGCCACCGCCTCTAGCTCCGGGCTCC
CTGAGGTCCCCAGTGCCCTGCCCGGTCCCACGGCTCCCACGCTGCCACCCCTGTCTGACTCGCCACCTGGTCTTG
CGGGTGCACAGGGAGAACCCAGGCGTGCTCATGGGCGGCCGATACACACCGCCCGACTGCACCCAGCCCAGACG
GTGGCGGTATCATCCCCCTTTAGACACCCGGGAACACCACCTGCGCTACTGGCTCCACTATCTACACCCCATCTTG
AGGCGGCAGCGGCTGCGCTACGGCGTCTATGTCATCAACCAGCATGGTGAGGACACCTTCAACCGGGCCAAGCTG
CTTAACGTGGGCTTCCCTAGAGGCGCTGAAGGAGGATGCCGCCTATGACTGCTTCATCTTCAGCGATGTGGACCTG
GTCCCCATGGATGACCGCAACCTATACCGCTGCGGCGACCAACCCCGCCACTTTGCCATTGCCATGGACAAGTTT
GGCTTCCGGCTTCCCTATGCTGGCTACTTTGGAGGTGTGTGACGGCCTGAGTAAGGCTCAGTTTCTGAGAATCAAT
GGCTTCCCCAATGAGTACTGGGGCTGGGGTGGCGAGGATGATGACATCTTCAACCGGATCTCCCTGACTGGGATG
AAGATCTCACGCCCAGACATCCGAATTGGCCGCTACCGCATGATCAAGCACGACCGCGACAAGCATAACGAACCT
AACCTCAGAGGTTTACCAAGATTCAAAACACGAAGCTGACCATGAAGCGGGACGGCATTGGGTGAGTGCGGTAC
CAGGTCTTGGAGGTGTCTCGGCAACCACTCTTCACCAATATCACAGTGGACATTGGGCGGCCTCCGTCTGGCCC
CCTCGGGGCTGACACTAATGGACAGAGGCTCTCGGTGCCGAAGATTGCCCTGCCAGAGGACTGACCACAGCCTGGC
TGGCAGCTGCTCTGTGGAGGACCTCCAGGACTGAGACTGGGCTCTGTTTTCCAAGGGTCTTCACTAGGCCCCCTA
GCTACACCTGGAAGTTTCAGAACCCACTTTGGGGGGCCTCCTGCCTGGGCAGGCTCTTCAAGTGTGGCCCTCTTT
GGAGTCAACCTCCTTCCCACCCCCCTCCCCCTAGCCAGCCCCAGTCACTGTCAGGGTCGGGCCAGCCCCCTGCA
CTGCCTCGCAGAGTGGCTGGGCTAGGTCACTCCACCTCTCTGTGCCTCAGTTTCCCCCCTTGAGTCCCCTAGG
GCCTGGAAGGGTGGGAGGTATGTCTAGGGGGCAGTGTCTCTCCAGGGGGAATTCTCAGCTCTTGGGAACCCCT
TGCTCCCAGGGGAGGGGAAACCTTTTTATTCAACATTGTAGGGGGCAAGCTTTGGTGCGCCCCCTGCTGAGGAG
CAGCCCCAGGAGGGGACCAGAGGGGATGCTGTGTGCTGCTGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCA
GGTGGGGCTTGGATCAGTAAGTCTGGTTCCCGCCTCCCTGTCTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTT
GTGTTTGTACATTGCACAGAACTTGTGTGGGTGCTTTAGTAAAAAACGTGAATGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 197

MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSARGPAHALHPAASSSSSSSSNCSRPNATAS
SSGLPEVPSALPGPTAPTLPDPCDPSPPGLAGAQGEPRRAHGRPIHTARLHPSPDGGGHHPL

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FIGURE 198

CCCAGTGCCCTGCCCGGTCCCACGGCTCCCACGCTGCCACCCTGTCCTGACTCGCCACCTGGTCTTGTGGGCAGA
CTGCTGATCGAGTTCACCTCACCCATGCCCCTGGAGCGGGTGCAGAGGGCCTGGAAGGGTGGGAGGTATGTCTAG
GGGGCAGTGTCTCTTCCAGGGGGAATTCTCAGCTCTTGGGAACCCCTTGCTCCCAGGGGAGGGGAAACCTTTTT
CATTCAACATTGTAGGGGGCAAGCTTTGGTGCGCCCCCTGCTGAGGAGCAGCCCCAGGAGGGGACCAGAGGGGAT
GCTGTGTCGCTGCCTGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCAGGTGGGGCTTGGATCAGTAAGTCTGGT
TCCCGCCTCCCTGTCTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTTGTGTTTGTACATTGCACAGAACTTGT
GTGGGTGCTTTAGTAAAAAACGTGAATGG

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FIGURE 199

GCCAGCAGCCGGATGCCCCGGGCCCCACTGGGCGGGCCAGTGGCCGCCTGCGGGATGAGCAGACTGCTGGGGGGGAC
GCTGGAGCGCGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACTTCCTCGTGGCCGTCATCCTCTACTTTGA
CGTCTACGCCCAGCACCTGGCCTTCTTCAGCCGCTTCAGTGCCCCGAGGCCCTGCCCCATGCCCTCCACCCAGCTGC
TAGCAGCAGCAGCAGCAGCAGCAACTGCTCCCGGGCCCAACGCCACCGCCTCTAGCTCCGGGCTCCCTGAGGTCCC
CAGTGCCCTGCCCCGTCCCACGGCTCCCACGCTGCCACCCTGTCTGACTCGCCACCTGGTCTTGTGGGCAGACT
GCTGATCGAGTTCACCTCACCCATGCCCTGGAGCGGGTGAGAGGGAGAAGCCAGGCGTGCTCATGGGCGGCCG
ATACACACCGCCCGACTGCACCCAGCCCAGACGGTGGCGGTTCATCATCCCTTTAGACACCGGGAACACCACCT
GCGCTACTGGCTCCACTATCTACACCCCATCTTGAGGCGGCAGCGGCTGCGCTACGGCGTCTATGTCATCAACCA
GCATGGTGAGGACACCTTCAACCGGGCCAAGCTGCTTAACGTGGGCTTCCTAGAGGCGCTGAAGGAGGATGCCGC
CTATGACTGCTTCATCTTCAGCGATGTGGACCTGGTCCCATGGATGACCGCAACCTATAACCGCTGCGGCGACCA
ACCCCGCCACTTTTGCCATTGCCATGGACAAGTTTGGCTTCCGGCTTCCCTATGCTGGCTACTTTGGAGGTGTGTC
AGGCCTGAGTAAGGCTCAGTTTCTGAGAATCAATGGCTTCCCAATGAGTACTGGGGCTGGGGTGGCGAGGATGA
TGACATCTTCAACCGGATCTCCCTGACTGGGATGAAGATCTCACGCCAGACATCCGAATCGGCCGCTACCGCAT
GATCAAGCAGACCGCGACAAGCATAACGAACTAACCCTCAGAGGTTTACCAAGATTCAAAACACGAAGCTGAC
CATGAAGCGGGACGGCATTGGGTGAGTGCAGTACCAGGTCTTGGAGGTGTCTCGGCAACCACTCTTCACCAATAT
CACAGTGGACATTGGGCGGCCTCCGTGCTGGCCCCCTCGGGGCTGACACTAATGGACAGAGGCTCTCGGTGCCGA
AGATTGCCTGCCAGAGGACTGACCACAGCCTGGCTGGCAGCTGCTCTGTGGAGGACCTCCAGGACTGAGACTGGG
CTCTGTTTTCCAAGGGTCTTCACTAGGCCCTTAGCTACACCTGGAAGTTTCAAGACCCACTTTGGGGGGCCTCC
TGCTGGGCGAGGCTCTTCAAGTGTGGCCCTCTTTGGAGTCAACCTCCTTCCCGACCCCTCCCCCTAGCCCAGC
CCCAGTCACTGTGAGGTGCGGCCAGCCCCCTGCACTGCCTCGCAGAGTGGCCTGGGCTAGGTCACTCCACCTCTC
TGTGCCTCAGTTTCCCCCCTTGAGTCCCCTAGGGCCTGGAAGGGTGGGAGGTATGTCTAGGGGGCAGTGTCTCT
TCCAGGGGGAATTCTCAGCTCTTGGGAACCCCTTGCTCCCAGGGGAGGGGAAACCTTTTTTCAATTCAACATTGTA
GGGGGCAAGCTTTGGTGCGCCCTTGCTGAGGAGCAGCCCCAGGAGGGGACCAGAGGGGATGCTGTGTCGCTGCC
TGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCAGGTGGGGCTTGGATCAGTAAGTCTGGTTCCCGCCTCCCTGT
CTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTTGTGTTGTACATTGCACAGAACTTGTGTGGGTGCTTTAGT
AAAAAACGTGAATGG

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FIGURE 200

MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHIAFFSRFSARGPAHALHPAASSSSSSSSNCSRPNATAS
SSGLPEVPSALPGPTAPTLPDPPGLVGRLLIEFTSPMPLERVQRENPGVLMGGRYTPPDCTPAQTVAVIIP
FRHREHHLRYWLHLYLHPILRRQRLRYGVYVINQHGEDTFNRAKLLNVGFLEALKEDAAYDCFIFSDVDLVPMDR
NLYRCGDQPRHFAIAMDKFGFRLPYAGYFGGVSGLSKAQFLRINGFPNEYWGWGGEDDDIFNRISLTGMKISRPD
IRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMKRDGIGSVRYQVLEVSQPLFTNITVDIGRPPSWPPRG

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FIGURE 201

GCGGAGAAACAGTAGTTAGGATGGCTGAAGGGGATACTACCGGCTGAAGGCCGACTGTGATTCCCCCTACCCCC
ACAAGGCGATTTTGAACCCCTGAGGGCTGCTCTAGAGGACTCAGGCCCCGAAGCTGTCCCAGGGAGGTCCCCGCT
GCATCCCACCACCCAAGCTGTGCCTCATGGAGTCGATGTTTAGCAGCCCTGCCGAGGGCGGCTGCAGCGAGAGA
CCGGGGTGCCAGGACTGCTTACTCCTCTCCGGACCTGGACGGAGTGTACGAGCTGGAGCGAGTCGCTGGATTG
TCCGCGACCTGGGGTGTGAACGAGTTGCCTTGCACTTCCCTGACCAGCTATTGGGAGATGCTGTGGCTGTGGCTG
CACGACTGGAGGAGACGACAGGGTCAAAGATGTTTCTGCGGTGACACAGCCTACGGCAGCTGCTGCGTGGATG
TGCTGGGTGCTGAGCAAGCTGGAGCTCAGGCTCTCATACATTTTGGCCCTGCCTGCTTAAGCCCTCCAGCCCCGCC
CACTGCCCCGTTGCCTTCGTGCTTCGTCAACGTTCTGTGGCCTTGAGCTCTGTGTCAAGGCCCTTTGAGGCCCAGA
ACCCAGACCCCAAAGCGCCTGTGGTGTGCTGAGTGAGCCGGCCTGTGCCCATGCCCTGGAGGCTTTGGCTACTC
TCCTGCGCCACGGTACCTGGACCTGCTAGTCTCCAGCCCAGCTTTTCCCCAACCAGTGGGTTCCCTGAGTCCAG
AGCCTATGCCCTTAGAGCGTTTTGGGCGCCGCTTCCCCCTTGCCCCAGGGAGGCGTCTAGAAGAGTATGGTGCCT
TCTATGTAGGGGGCTCTAAGGCCAGCCCTGACCCAGACCTTGACCCAGACCTGAGTCGGCTGCTCTTGGGGTGGG
CACCAGGTCAACCCTTCTCCTCCTGCTGTCCAGATACAGGGAAGACTCAGGATGAGGGTGCCCGGGCTGGACGGC
TAAGGGCACGAAGACGATATCTGGTAGAGAGGGCCAGAGATGCCCGCTGGTAGGGCTGCTGGCAGGCACACTGG
GTGTAGCCCAACACCGTGAGGCACTGGCCCACTTGCGGAACCTGACTCAGGCTGCTGGCAAGCGTAGCTATGTGT
TGGCCCTGGGGCGGCCACCCCTGCCAAGCTTGCCAACCTTCCCTGAGGTGGATGTCTTTGTGCTATTAGCCTGTC
CTCTGGGTGCTCTAGCCCCCAGCTTTCTGGTAGCTTCTTCCAGCCTATACTGGCACCATGTGAGCTGGAAGCTG
CCTGCAACCTGCTGGCCACCTCCAGGCCTGGCTCCCCACCTCACACATTATGCGGACTTATTGCCTGGCTCTC
CCTTCCACGTGGCTCTCCCACCACCTGAGTCAGAGCTGTGGGAAACCCAGACGTGTCACTCATTACTGGAGATC
TCCGACCCCCACCTGCCTGGAAGTCATCAATGATCATGGAAGCTTGGCTCTGACCCACGGCCCCAGCTGGAGC
TGGCTGAGAGCAGTCCTGCAGCCTCATTCCCTTAGTTCCCGGAGCTGGCAAGGGCTGGAGCCCCGCTGGGTGAGA
CGCCAGTGACAGAAGCTGTGAGTGGAAGACGAGGGATTGCCATCGCCTATGAGGATGAGGGAAGCGGCTGATACC
ATGTGGGGCTGGAGACATAGATGGACTTATGAATGGCTGCTAGGACCTTTAGTGCTCCCTGCACCAACCTCCCAT
CCCCCTGCCAAGATCCTTGAAGGACCTGGAAGGAGGGAGAGCAGGCAGCCCTTCACAGGATAGGATCCGTCTCT
GTCCTGTCTTGGCACTGGCACAAGCTCAGCCCATGCCAGTAATGCGTGTTGTTTGGCTGATGGAATAAAGGGCT
TAGGGACTTCCCTGAGGCCTCTGGACCCATCTGTCTTCTGAGGGCAGCCAGGACCTTTGGCCAATCCCAGTTC
CCAGGCTGCAGTTGAGGGTCTGTCTTGTCAAAGGCAGGTGCTAGACAGTCTAGACCAGGGTTTCTCAAACCTCG
TACTTGACATTTGGGGCCAGATAATTCTTTGTTGTGGGGCTGTCTGGTGTATGGTAGGGTGCTCAGCAGCATCCC
TGGCCTCTGCCCAGTAGACATCAGAAGCACTCCCCAGTTGTGACAACCAAAAAATATCTCCAGACCTTGGCAAT
GTTATCTGTGGGGGAAAATTGCCCTCAATTGAGAACCCTGGTCTAGCTAGACCTGCACTGTCCAGTACAGTAGC
CACTAAATACATGTGGCTAAACTTAAATTTAAGTTAATTAAGATTAAGGCTCAGTTTCTCAGTCACATTAGTCA
TTCAAGTGTTAGACAGCCACATGAGGGGACAGTGCAGCTACAGGATATGCCATCATGGCAGAAAGTTCTGTTGG
TTGGACAGCGTTGGTCTATACTGACTCTTATTTCTCAGGGAGATCACAGCAACCTAAATAAACCAGATACCTTTT
C

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FIGURE 202A

GCCTTCGCCTGCTGGAAAAGCAGTAGGATCGGCCAGTGGCGACAGCAGGAGCTGAGCCTAAGCCCTGGCGGGGCT
TTGGGCTGTAGATTCTGTCTGACTAAAGGGACCTCAAAAAGGAGGGAAAATGGCTTCTGAGTCTGAAACTCTGA
ATCCAGTGTAGGATAATGACCTTTTATCCAACATATGGAAGAGTTCCGAAACTTCAGTAGATACATTGCCTACA
TTGAATCCCAAGGAGCTCATCGGGCAGGGCTAGCCAAGGTTGTTCCCTCCAAAAGAGTGGAAGCCACGAGCATCCT
ATGATGACATTGATGATTGGTTCATTCTGCCCCATTCAACAGCTGGTGACGGGGCAGTCTGGCCTCTTTACTC
AGTACAACATACAGAAGAAAGCCATGACTGTTTCGAGAGTTCCGCAAGATAGCCAATAGCGATAAGTACTGTACCC
CACGCTATAGTGAGTTTGAAGAGCTCGAGCGGAAATACTGGAAAAATCTTACATTCAATCCTCCAATCTATGGTG
CAGATGTGAATGGTACCCTCTATGAAAAGCATGTTGATGAGTGGAATATTGGCCGGCTGAGAACAATCCTGGACT
TGGTGGAAAAGGAGAGTGGGATCACCATTGAGGGTGTGAACACCCCATACCTGTACTTTGGCATGTGGAAGACAT
CCTTTGCTTGGCACACTGAAGACATGGACCTCTACAGCATCAACTACCTGCACCTTTGGAGAACCAGTCTGGT
ACTCTGTTCCACCTGAGCATGGAAAGCGGTTGGAACGCCCTCGCCAAAGGCTTTTTCCAGGAAGTGCTCAAAGCT
GTGAGGCATTTCTCGCCACAAGATGACCCTGATTTCCCCGTTAATGCTGAAGAAATATGGAATTCCCTTTGACA
AGGTGACTCAAGAGGCTGGAGAGTTTATGATCACTTTCCCTTATGGTTACCATGCCGGCTTTAACCATGGTTTTA
ACTGTGCGGAGTCTACCAATTTTGCTACCCGTCGGTGGATTGAGTACGGCAAGCAAGCTGTGCTGTGCTCCTGTA
GAAAAGGACATGGTGAAGATCTCCATGGATGTGTTTGTGAGAAAGTTCCAGCCAGAAAGGTACAAACTTTGAAAAG
CTGGGAAGGACAACACAGTTATTGACCATACTCTGCCCACGCCAGAAGCAGCTGAGTTTCTTAAGGAGAGTGAAC
TGCTTCCAAGAGCTGGCAACGAGGAGGAGTGCCAGAGGAGGACATGGAAGGGGTGGAGGATGGAGAGGAAGGAG
ACCTGAAGACAAGCCTGGCCAAGCACCGAATAGGGACAAAGAGGCACCGAGTTTGTCTTGAAATACCACAGGAGG
TGAGTCAGAGTGAGCTCTTCCCCAAGGAGGATCTGAGTTCTGAGCAGTATGAGATGACGGAGTGCCCGGCAGCCC
TCGCCCCCTGTGAGGCCACCCATAGCTCTGTGCGGCAAGTTGAGGATGGTCTTACCTTCCAGATTATTCTGACT
CCACTGAAGTCAAATTTGAAGAGCTTAAAAATGTCAAAC TAGAAGAGGAGGATGAGGAGGAAGAACAAGAAGCAG
CTGCCTTGGATCTTTCTGTGAATCCTGCGTCTGTAGGGGGACGCCCTTGTCTTCTCAGGCTCCAAAAGAAATCAT
CTTCTAGCCTGGGCTCTGGCTCTTACGGGATTCTATCTCTTCTGATTTCAGAACTAGTGAGCCTCTCTCCTGCC
GAGCCCCAAGGGCAAACGGGAGTTCTCACTGTGCACAGTTATGCCAAAGGGGATGGCAGGGTCACTGTGGGAGAGC
CATGCACGAGGAAGAAAGGAAGCGCCGCTAGAAGTTTCAGTGAGCGGGAGCTGGCAGAGGTTGCAGATGAATACA
TGTTTTCCCTAGAAGAGAATAAGAAGTCCAAGGGACGCCGTCAGCCTTTAAGCAAGCTCCCCCGCCATCACCCAC
TTGTGCTGCAGGAGTGTGTGATGATGATGAGACATCTGAACAGCTGACCCCTGAGGAAGAGGCTGAGGAGACAG
AGGCCTGGGCCAAGCCTCTGAGCCAACGTGGCAGAACCGACCTCCAAACTTTGAGGCTGAGAAGGAATTCAATG
AGACCATGGCCCCAACAGGCCCTCACTGCGCTGTCTGTATGATCTTCCAGACTTATCATCAGGTTGAATTTGGAG
GCTTTAATCAGAACTGTGGAATGCTTCAGATTTAGCCCCCAGAAAGCAGAGGACCAAGCCATTGATTCCAGAAA
TGTGCTTCACTTCGACTGGCTGCAGCACGGACATCAACCTTTCTACTCCTTATCTTGAGGAGGATGGCACCAGCA
TACTCGTTTCTGCAAGAAGTGCAGCGTCCGGGTCCATGCCAGTTGCTATGGGGTCCCCCTGCAAAGGCTTCTG
AAGACTGGATGTGTTCTCGGTGTTTACGCCAATGCCCTAGAGGAGGACTGCTGTTTATGCTCATTACGAGGAGGG
CCCTGCAGAGAGCAAATGATGACAGGTGGGTCCACGTTTCTATGTGCTGTGGCAATTCTGGAAGCAAGGTTTGTCA
ACATTGCAGAAAAGTCCGGTGGATGTGAGCAAAATCCCCCTGCCCGCTTCAAAGTGAATGTATCTTCTGTA
AGAAGCGGAGGAAAAGAACTGCTGGCTGCTGTGTGAGTGTCTCACGGCCGCTGCCAACTGCCTTCCATGTGA
GCTGCGCCAGGCTGCCGGTGTGATGATGCAGCCTGACGACTGGCCTTTTGTGGTCTTCATTACCTGCTTTCCGGC
ACAAGATTCTAATTTGGAGCGTGCCAAGGGGGCCTTGCAAAGCATCACTGCAGGCCAGAAAGTCATTAGCAAGC
ATAAGAACGGGCGCTTCTACCAAGTGTGAAGTGGTCAGGCTCACCACCGAGACCTTCTATGAAGTCAACTTTGATG
ATGGCTCCTTCAGCGACAATCTTTATCCTGAGGACATAGTGAGCCAGGACTGTCTCCAGTTTGGTCTCTCTGCTG
AAGGGGAAGTGGTCCAAGTGAGATGGACAGACGGCCAAGTCTATGGAGCCAAGTTTGTGGCCTCCACCCCTATCC
AAATGTACCAGGTGGAGTTTGGAGTGGCTCACAACCTTGTGGTTAAGAGAGATGATGTATACACACTGGATGAAG
AGCTTCCCAAGAGAGTCAAATCTAGACTGTGATGCTCAGTACGCTCAGACATGCGCTTCAATGAGATTTTACAGAGAAAG
AGGTTAAGCAAGAAAAGAAACGGCAACGAGTTATCAACTCAAGATACCGGGAAGATTATATTGAGCCTGCACTAT
ACCGGGCCATCATGGAGTAGGTGCTTCCAGGGTCCAAGGGATTCTCAGCCATCCAGGCAAGAGCACTCTGGGTTT
CACAGCACAGCAGACATGGAACGCTGAAGTCTCTGAAAGTGAAGTTGTAAAAAGAAAAGGAATGAAATAACCGAC
CCATCATCTTCTCACCCACCCTCATTGCATTCCGCTGTAGTGAAAGGACGAGCCATTTCTGGGCACGTGGCAGCA
GTCGCTGATCTCCAGCTGAGGGGCTGAGCACTGGAATGCTGTGGCTGCACTGGCCCCAGTCCATAGAGGGGTCA

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FIGURE 202B

ACTATGCTGGCTGGACTGGCTGCCTTGTTCCCTGGCCTAGGACTTAGCTTCATAACTATCACCTGCACCGACTAGG
CTGAGGTGCTGGTACTTGCCCCAACCCCTACTTTTGTATTTATATGTGTGTGTGTGTGTGCGTGCGTGCGTGCGT
GCGTGTATGTTTGGTCTGGACCAGCTTCTGCCAGCCCCTGGCCTTTACTTTCTTCCTTGCCCTATGCAGGGCAAAC
AAAATGTGAAATTCTGCCCTCAGCTGAGCTGAGTAAGGGCTCCTGGGGGTTGGCTGGAGATGGGTGTGGCATCTG
TCCAGGCCTGGAACCGTCTCAAGACAGTGCTGGCAAAGCTGCAGTATTGAGATGCTAAGGAGCTGATGCCACCTC
TTTGTCTTCCCCTAAAGGAGAACATGGGGATAACATGGGTGTGTGCCACAACACTCTAGGTGCAGAGCCCCTGT
GGCAAAGTATTACAGGGTGTGGGTGGGGATTACCCTGAATCGGGGATTTTAATGATGGAAGCAGGCAGAGCCTGG
TGGGTGATTCTGTCAACAGAAAATTGCAATCATGCAGGGGCTGGGAGGGTTAGGATGAAAAAACTGGGGCCATTG
GAGGCCCACTGTAGGTGGGAGGGAGCTGATTTTGGGGTGGGGGTGGGACTAGAGGGCAATACTGAAGGGGTTAA
ACAGGTTTTTGCTCCTCAAGAATTTGTTTGCCTGGGCCAGGATTGGAGGGCTTCACACCAATACCCTGTGTATA
CAAGAATCAGATTTATAATACTTCCCCTTTTTTGTACGTATGAACACTATAAACCAAATTATTTTG

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FIGURE 203

MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPPKEWKPRASYDDIDDLVIPAPIQQLV
TGQSGFLTQYNIQKKAMTVREFRKIANSDKYCTPRYSEFEELERKYWKNLTFNPP IYGADVNGTLYEKHVDEWNI
GRLRTILDIVEKESGITIEGVNTPYLYFGMWKTSFAWHTEDMDLYSINYLHFGEPKSWYSVPPEHGKRLERLAKG
FFPGSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFNHGFNCAESTNFATRRWIEYG
KQAVLCSCRKDMVKISMDVFVRKFQPERYKLWKAGKDNTVIDHTLPTPEAAEFLKESELPPRAGNEEECPPEEDME
GVEDGEEGDLKTSLAKHRIGTKRHRVCLEIPQEVSQSELFPKEDLSSEQYEMTECPAALAPVRPTHSSVRQVEDG
LTFPDYSDSTEVKFEELKNVKLEEEDEEEQEAAALDLSVNPASVGGRLVFGSGKKKSSSSSLGSGSSRDSISSDS
ETSEPLSCRAQQGTGVLTVHSYAKGDGRVTVGEPCTRKKGSAARSFSERELAEVADEYMF\$LEENKKSKGRRQPL
SKLPRHHPLVLQECVSDDTSEQLTPEEEAEETEAWAKPLSQLWQNRPPNFEEKEFNETMAQQAPHCAVCMIFQ
TYHQVEFGGFNQNCGNASDLAPQKQRTKPLIPEMCFTSTGCSTDINLSTPYLEEDGTSILVSCKKCSVRVHASCY
GVPPAKASEDWMCSRCSANALEEDCCLCSLRGGALQRANDDRVHVSCAVAILEARFVNIAERSPVDVSKIPLPR
FKLKCIFCKRRKRRTAGCCVQCSHGRCPTAFHVSCAQAGVMMQPDDWPFVVFITCFRHKIPNLERAKGALQSIT
AGQKVISKHKNRFRYQCEVVRLTTETFYEVNFDDGSFSDNLYPEDIVSQDCLQFGPPAEGEVVQVRWTDGQVYGA
KFVASHPIQMYQVEFEDGSQLVVKRDDVYTLDEELPKRVKSRLSVASDMRFNEIFTEKEVKQEKKRQRVINSRYR
EDYIEPALYRAIME

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FIGURE 204

AGTTACAGACAGCTGACCATGGAAGCGAATGGGTTGGGACCTCAGGGTTTTCCGGAGCTGAAGAATGACACATTCTGCGAGCAGCCTGGGGAGAGGAAACAGACTACACTCCCGTTTGGTGCATGCGCCAGGCAGGCCGTTACTTACCA GAGTTTAGGGAAACCCGGGCTGCCCAGGACTTTTTTCAGCACGTGTCGCTCTCCTGAGGCCTGCTGTGAAGTACTGCTG CAGCCACTGCGTCGCTTCCCTCTGGATGCTGCCATCATTTTTCTCCGACATCCTTGTTGTACCCAGGCACTG GGCATGGAGGTGACCATGGTACCTGGCAAAGGACCCAGCTTCCCAGAGCCATTAAAGAGAAGAGCAGGACCTAGAA CGCCTACGGGATCCAGAAGTGGTAGCCTCTGAGCTAGGCTATGTGTTCCAAGCCATCACCCTTACCCGACAACGA CTGGCTGGACGTGTGCCGCTGATTGGCTTTGCTGGTGCCCCATGGACCCTGATGACATACATGGTTGAGGGTGGT GGCTCAAGCACCATGGCTCAGGCCAAGCGCTGGCTCTATCAGAGACCTCAGGCTAGTCACCAGCTGCTTCGCATC CTCACTGATGCTCTGGTCCCATATCTGGTAGGACAAGTGGTGGCTGGTGCCAGGCATTGCAGCTGTTTGAGTCC CATGCAGGGCATCTTGGCCACAGCTCTTCAACAAGTTTGCCTGCTTACATCCGTGATGTGGCCAAGCAAGTG AAGGCCAGGTTGCGGGAGGCAGGCCTGGCACCAGTGCCCATGATCATCTTTGCTAAGGATGGGCATTTTGCCCTG GAGGAGCTGGCCCAAGCTGGCTATGAGGTGGTTGGGCTTGACTGGACAGTGGCCCCAAAGAAAGCCCGGAGTGT GTGGGGAAGACGGTGACATTGCAGGGCAACCTGGACCCCTGTGCCTTGATGCATCTGAGGAGGAGATCGGGCAG TTGGTGAAGCAGATGCTGGATGACTTTGGACCACATCGCTACATTGCCAACCTGGGCCATGGGCTTTATCCTGAC ATGGACCCAGAACATGTGGGCGCCTTTGTGGATGCTGTGCATAAACACTCACGTCTGCTTCGACAGAAC**TGAGTG** TATACCTTTACCCCTCAAGTACCACTAACACAGATGATTGATCGTTTCCAGGACAATAAAAGTTTCGGAGTTGAAC TATTGTGTAGTTTTGTTTTGTGAAAGATTGTGCCCATATCCTCAGTTCTTCTTAGCCTCTGCTCCTTCCCTGGGAA CCCTCTCTATATCCTCTT

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FIGURE 205

MEANGLGPQGFPPELKNDTFLRAAWGEETDYPVWCMRQAGRYLPEFRETRAQQDFFSTCRSPEACCELTLOPLRR
FPLDAAIIFSDILVVPQALGMEVTMVPKGPSFPEPLREEQDLERLRDPEVVASELGYVFQAITLTRQRLAGRVP
LIGFAGAPWTILMTYMVEGGGSSTMAQAKRWLYQRPQASHQLLRILTDALVPYLVGQVVAGAQLQLFESHAGHLG
PQLFNKFALPYIRDVAKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAGYEVVGLDWTVAPKKARECVGKTVT
LQGNLDPALYASEEEIGQLVKQMLDDFGPHRYIANLGHGLYPDMDPEHVGAFVDAVHKHSRLLRQN

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FIGURE 206

AGCTTTGCGCAGTGGCAGTATCGTAGCCAATGAGGTTTATCCGAGGCGCGATTATTGCTAATTGAAAACTTTTC
CAATACCCCGCCATGACGACTTGAAATATAGTCGGCATTGGCAATTTTGGACAGTCTCTACGGAGACTGCATGTG
CTGGTGAAGCTCCTGGAAGTGAATGGAAGGAATGGACAAGGAGACGTTTGAGTTCAAGTTTGGGAAGGAACTAACA
TTCACCACTGTACTGAGTGACCAACAGGTGGTGGAGCTGATCCCTGGGGGTGCAGGCATCGTCGTGGGATATGGG
GACCGTTCTCGTTTCATCCAACCTGGTCCAGAAGGCACGGCTAGAGGAGAGCAAGGAGCAGGTGGCAGCTATGCAG
GCAGGTCTGCTGAAGGTGGTACCACAGGCTGTGCTGGACTTGCTGACCTGGCAAGAGTTGGAGAAGAAAGTGTGT
GGGGATCCAGAGGTCACTGTGGATGCTCTGCGCAAGCTCACCCGGTTTGAGGACTTCGAGCCATCTGACTCGCGG
GTGCAGTATTTCTGGGAGGCACTGAACAACCTTACCAACGAGGACCGGAGCCGCTTCCTGCGCTTTGTACGGGC
CGCAGTCGCCTGCCAGCACGGATCTACATCTACCCAGACAAGCTGGGCTACGAGACCACAGACGCGCTGCCCGAG
TCTTCCACTTGCTCCAGCACCTCTTCTGCCACACTATGCCAGTGCCAAGGTATGCGAGGAGAAGCTCCGCTAT
GCGGCCTACAACCTGCGTGGCCATCGACACTGACATGAGCCCTTGGGAGGAGTGAAGGCGTGCCCGGGCTGTGGGA
CCAGCAAGACTGCACGTGTCCCTCTTGGCCTTGCCCAGGGCGAAGACACCTTCCCTGCCCTGGTTTGGCTGACGT
GCTCAGCAAAACCCCATGTGCCCTGCTCCTGTGTGACAGTTGGGGTAGGGGCAGCTGGCATGGTCAGGTAACACTA
GTGGCCCAGCCCCGAGACCCACAAGCCCTACCCGTGCTGGGGCTTGCTTCCCGAGGTATTTACCTCTTAAGAG
GGAATCTTCCACAAGCCCAGCACAAAGCTGCCAGGCCTGAGCTACTTGAAGGGGGCCATCTAGGTCCCCAACCCAT
GGACTTTGCCTCCATTTTTCAGCTCCGCCTTTTTTCTCCTATTTTCTCTCTGGCTTTCTTCAGCCATGACTCACAA
CTAAAAACATAAAACACTGGAGGTTAGTGGAGGCCCTCCCCAAGCAGGGAGCCTGGGATGGGCAGGGAGTGATA
GCCAAACTCCTTGGTCACTGCTCCAAGAAGGAAGCAGTAGCTGAGCACCTGCCCTCACATACTGCTCTTTTCCC
CTCTCCCTCCACACCAGAGATGTGGTGAGCTCTGTTCTTCTACCAACCCAGTCTCAACACACAAAGTGCCACCAC
CTTCCCTGACTCAGAACCCACATCCACTCAATGTGAACCTACTACCACGACCTCCCCATATTCCTCACTTCTCC
ATCACCTCCAGCCTGACTCCCTGTCTGCCCTTTCACCCCAAGATTTTGCACAGGTTAAGGCCAGTTATGGCCTT
TTTGAAATCTGTAATAGCTCCCTTTCCCAACTCTAAAGCCTAGACCTTAAACCTGTTCTTAGAGCTATGCACA
CCCCTGCCCCAGTTTACCGTTCCCTCCCTCAGGGCCTCCGTGACACTCCATGAAAAGAAGTTCTTGCATACCGGAA
AGTTGAATAAATGGATGAATTCAAAAAAAAAAAAAAAAAAAA

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FIGURE 207

MEGMDKETFEFKFGKELTFTTVLSDQQVVELIPGGAGIVVGYGDRSRFIQLVQKARLEESKEQVAAMQAGLLKVV
PQAVLDLLTWQELEKKVCGDPEVTVDALRKLTRFEDFEPDSRVQYFWEALNNFTNEDRSRFLRFVTGRSRLPAR
IYIYPDKLGYETTDALPESSTCSSTLFLPHYASAKVCEEKLRYAAYNCVAIDTDMSPWEE

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FIGURE 208

CACAATGGTGCGCATGAATGCCCTGGCAGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGGCAAACGCCA
GGTGCTTCTTAGGCCATGCTCCAAAGTCATCGTCCAGTTTCTCACTGTGATGATGAAGCATGGTTACATTGGCGA
ATTTGAAATCACTGATGATCACAGAGCTGGGAAAATTGTTGTGAACCTCACAGGCAGGCTAAACAAGTGTGGAGC
GATCAGCCCCAGATTTGATGTGCAACTCAAAGATCTGGAAAAATGGCAGAATAATCTGCTTCCATCCCGCCAGTT
TGATTTCAATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGCAAGACGAAAACACACAGGAGGGAAAAT
CCAGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGCCTCAAGGAC

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FIGURE 209

MVRMNALADALKSINNAEKRGRQVLLRPCSKVIVQFLTVMMKHGYIGEFEITDDHRAGKIVVNLTGRLNKC
GAI
SPRFDVQLKDLEKWQNNLLPSRQFDFIVLTTSAGIMDHEARRKHTGGKIQGFFF

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FIGURE 210

CTCTTTCCAGCCAGCGCCGAGCGATGGGCATCTCTCGGGACAACCTGGCACAAGCGCCGCAAAACCGGGGGCAAGA
GAAAGCCCTACCACAAGAAGCGGAAGTATGAGTTGGGGCGCCAGCTGCCAACACCAAGATTGGCCCCCGCCGCA
TCCACACAGTCCGTGTGCGGGGAGGTAACAAGAAATACCGTGCCCTGAGGTTGGACGTGGGGAATTTCTCCTGGG
GCTCAGAGTGTTGTACTCGTAAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTCGTA
CCAAGACCCTGGTGAAGAATTGCATCGTGCTCATCGACAGCACACCGTACCGACAGTGGTACGAGTCCCACTATG
CGCTGCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAACGATCTA
AAAAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAATCAGCAGTCTCCTGGAGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGCGTGATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGCAAAGGCCAAATAAATCCTTGTTTTGTCTTCACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCCACA

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FIGURE 211

MGISRDNWHKRRKTGGKRKPYHKKRKYELGRPAANTKIGPRRIHTVRVRGGNKKYRALRLDVGNF SWGSECCTRK
TRIIDVVYNASNNELVRTKTLVKNCIVLIDSTPYRQWYESHYALPLGRKKGAKLTPEEEEEILNKKRSKKIQKKYD
ERKKNAKISSLLEEQFQQGKLLACIASRPGQCGRADGYVLEGKELEFYLRKIKARKGK

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FIGURE 212

ACGCTTGCGCGCGGGATTTAAACTGCGGCGGTTTACGCGGCGTTAAGACTTCGTAGGGTTAGCGAAATTGAGGTT
TCTTGGTATTGCGCGTTTCTCTTCCTTGCTGACTCTCCGAATGGCCATGGACTCGTCGCTTCAGGCCCCGCTGTT
TCCCGGTCTCGCTATCAAGATCCAACGCAGTAATGGTTTAATTACAGTGCCAATGTAAGGACTGTGAACTTGGA
GAAATCCTGTGTTTTAGTGGAATGGGCAGAAGGAGGTGCCACAAAGGGCAAAGAGATTGATTTTTGATGATGTGGC
TGCAATAAACCCAGAACTCTTACAGCTTCTTCCCTTACATCCGAAGGACAATCTGCCCTTGCAAGAAAATGTAAC
AATCCAGAAACAAAACGGAGATCCGTCAACTCCAAAATTCCTGCTCCAAAAGAAAGTCTTCAAGCCGCTCCAC
TCGCATGTCCACTGTCTCAGAGCTTCGCATCACGGCTCAGGAGAATGACATGGAGGTGGAGCTGCCTGCAGCTGC
AACTCCCCGCAAGCAGTTTTAGTTCTCTGCCCCACTAGGCCTTCTGCCCCTGCAGTGGCTGAAATACCATT
GAGGATGGTCAGCGAGGAGATGGAAGAGCAAGTCCATTCCATCCGAGGCAGCTCTTCTGCAAACCTGTGAACTC
AGTTCGGAGGAAATCATGTCTTGTGAAGGAAGTGGAAAAATGAAGAACAAGCGAGAAGAGAAGAAGGCCAGAA
CTCTGAAATGAGAATGAAGAGAGCTCAGGAGTATGACAGTAGTTTTCCAACTGGGAATTTGCCCGAATGATTAA
AGAATTTCCGGGCTACTTTGGAATGTCATCCACTTACTATGACTGATCCTATCGAAGAGCACAGAATATGTGTCTG
TGTTAGGAAACGCCCACTGAATAAGCAAGAATTGGCCAAGAAAGAAATTGATGTGATTTCCATTCTTAGCAAGTG
TCTCCTCTTGGTACATGAACCCAAGTTGAAAGTGGACTTAACAAAGTATCTGGAGAACCAAGCATTCTGCTTTGA
CTTTGCATTTGATGAAACAGCTTCGAATGAAGTTGTCTACAGGTTACACAGCAAGGCCACTGGTACAGACAATCTT
TGAAGGTGGAAAAGCAACTTGTGTTTGCATATGGCCAGACAGGAAGTGGCAAGACACATACTATGGGCGGAGACCT
CTCTGGGAAAGCCCAGAATGCATCCAAAGGGATCTATGCCATGGCCTCCCGGGACGTCTTCTCTGAAGAATCA
ACCCTGCTACCGGAAGTTGGGCCTGGAAGTCTATGTGACATTCTTCGAGATCTACAATGGGAAGCTGTTTGACCT
GCTCAACAAGAAGGCCAAGCTGCGCGTGCTGGAGGACGGCAAGCAACAGGTGCAAGTGGTGGGGCTGCAGGAGCA
TCTGGTTAACTCTGCTGATGATGTCATCAAGATGATCGACATGGGCAGCGCCTGCAGAACCTCTGGGCAGACATT
TGCCAACTCCAATTCTCCCGCTCCACGCGTGCTTCCAAATTATCTTCGAGCTAAAGGGAGAATGCATGGCAA
GTTCTCTTTGGTAGATCTGGCAGGGAATGAGCGAGGCGCGGACACTTCCAGTGCTGACCGGCAGACCCGCATGGA
GGGCGCAGAAATCAACAAGAGTCTCTTAGCCCTGAAGGAGTGCATCAGGGCCCCGGGACAGAACAGGCTCACAC
CCCGTTCCGTGAGAGCAAGCTGACACAGGTGCTGAGGGACTCCTTCATTGGGGAGAACTCTAGGACTTGCAAGGAG
GCCACGATCTCACCAGGCATAAGCTCCTGTGAATATACTTTAAACACCCTGAGATATGCAGACAGGGTCAAGGAG
CTGAGCCCCCAGTGGGCCCAGTGGAGAGCAGTTGATTCAAATGGAAACAGAAGAGATGGAAGCCTGCTCTAAC
GGGGCGCTGATTCCAGGCAATTTATCCAAGGAAGAGGAGGAAGTGTCTTCCCAGATGTCCAGCTTTAACGAAGCC
ATGACTCAGATCAGGGAGCTGGAGGAGAAGGCTATGGAAGAGCTCAAGGAGATCATAACAGCAAGGACCAGACTGG
CTTGAGCTCTCTGAGATGACCGAGCAGCCAGACTATGACCTGGAGACCTTTGTGAACAAAGCGGAATCTGCTCTG
GCCCAGCAAGCCAAGCATTCTCAGCCCTGCGAGATGTCATCAAGGCCTTGCGCCTGGCCATGCAGCTGGAAGAG
CAGGCTAGCAGACAAATAAGCAGCAAGAAACGGCCCCAGTGACGACTGCAAATAAAAAATCTGTTTGGTTTGACAC
CCAGCCTCTTCCCTGGCCCTCCCCAGAGAACTTTGGGTACCTGGTGGGTCTAGGCAGGGTCTGAGCTGGGACAGG
TTCTGGTAAATGCCAAGTATGGGGGCATCTGGGCCAGGGCAGCTGGGGAGGGGGTCAGAGTGACATGGGACACT
CCTTTTCTGTTCTCTCAGTTGTGCGCCCTCACGAGAGGAAGGAGCTCTTAGTTACCCTTTGTGTGCCCCTCTTTT
CATCAAGGGGAATGTTCTCAGCATAGAGCTTTCTCCGAGCATCTGCTGCGTGGACTGGCTGCTAATGGAGAG
CTCCCTGGGGTTGTCTGGCTCTGGGGAGAGAGACGGAGCCTTTAGTACAGCTATCTGCTGGCTCTAAACCTTCT
ACGCCTTTGGGCGGAGCACTGAATGTCTTGTACTTTAAAAAAATGTTTCTGAGACCTCTTCTACTTTACTGTCT
CCCTAGAGATCCTAGAGGATCCCTACTGTTTTCTGTTTTATGTGTTTATACATTGTATGTAACAATAAGAGAAA
AAATAAA

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FIGURE 213A

TAGGCAGGCGGCTGAGCCGGCGGGTGGCCTGCCCAACGTGTGCTGGGTGGGAGAAGGCGAGGCGTCAGCGAT
GCTGTCTCTTCCGTGAGGAGCGCAGAGGAGGTCGCGGCGCCGAGGCCCCAGAAGGCTCGAAGGCGCCGCGGGCT
GGGGTCGGTGGCTTAGGGAGCCCGTCCGGCCATGGTGGCCGCGGGTGGTGGTTGGCGCGGCTGCGTGC GGCCCG
GGGCAGTGGCGAGCCGGGACAGTCGCGGCGCTGACGCCCCGCGGGCCCCAGCTGCAGATATGAAGCGGAGCCGCTG
CCGCGACCGACCGCAGCCGCCGCCGCCGACCGCCGGGAGGATGGAGTTTCAGCGGGCAGCGGAGCTGTCTCAGTC
TTTGCCCGCGCGCCGGCGAGCGCCGCCCGGGAGGCAGCGGCTGGAGGAGCGGACGGGCCCCGCGGGCCCCGAGGG
CAAGGAGCAGGATGTAGTAACTGGAGTTAGTCCCCTGCTCTTCAGGAACTCAGTAATCCTGACATATTTTCATC
CACTGGAAAAGTTAACTTCAGCGCAACTGAGTCAGGATGATTGTAAGTTATGGAGAGGAAACCTGGCCAGCTC
TCTATCGGGTAAGCAGCTGCTCCCTTTGTCCAGCAGTGATACATAGCAGTGTGGGACAGGTGACTTGGCAGTCGTC
AGGAGAAGCATCAAACCTGGTTTGAATGAGAAACCAGTCCCTTGGACAGTCTGCACCTTCTCTTACTGCTGGCCT
GAAGGAGTTGAGCCTTCCAAGAAGAGGCAGCTTTTGTGCGACAAGTAACCGCAAGAGCTTGATTGTGACCTCTAG
CACATCACCTACACTACCACGGCCACACTCACTCCATGGCCACACAGGTAACAGTCCCTTGGACAGCCCCCG
GAATTTCTCTCAAATGCACCTGCTCACTTTTCTTTTGTCTGCCCCGTAGGACTGATGGGCGGCGCTGGTCTTT
GGCCTCTTTGCCCTCTTCAGGATATGGAATAACACTCCTAGCTCCACTGTCTCATCATCATGCTCCTCACAGGA
AAAGCTGCATCAGTTGCCTTTCCAGCCTACAGCTGATGAGCTGCACTTTTTGACGAAGCATTTCAGCACAGAGAG
CGTACCAGATGAGGAAGGACGGCAGTCCCCAGCCATGCGGCCCTCGCTCCCGAGCCTCAGTCCCGGACGATCCCC
AGTATCCTTTGACAGTGAAATAATAATGATGAATCATGTTTACAAAGAAAGATTCCCAAAGGCCACCGCACAAAT
GGAAGAGCGACTAGCAGAGTTTATTTCTCCAACACTCCAGACAGCGTGCTGCCCTTGGCAGATGGAGCCCTGAG
CTTTATTTCATCATCAGGTGATTGAGATGGCCCGAGACTGCCTGGATAAATCTCGGAGTGGCCTCATTACATCACA
ATACTTCTACGAACCTTCAAGATAATTTGGAGAACTTTTACAAGATGCTCATGAGCGCTCAGAGAGCTCAGAAGT
GGCTTTTGTGATGCAGCTGGTGAAAAAGCTGATGATTATCATTGCCCGCCAGCACGTCTCCTGGAATGCCTGGA
GTTTGACCCTGAAGAGTTCTACCACCTTTTAGAAGCAGCTGAGGGCCACGCCAAAGAGGGACAAGGGATTAAATG
TGACATTCCCCGCTACATCGTTAGCCAGCTGGGCCCTCACCCGGGATCCCCTAGAAGAAATGGCCAGTTGAGCAG
CTGTGACAGTCTGACACTCCAGAGACAGATGATTCTATTGAGGGCCATGGGGCATCTCTGCCATCTAAAAAGAC
ACCCTCTGAAGAGGACTTCGAGACCATTAAGCTCATCAGCAATGGCGCCTATGGGGCTGTATTTCTGGTGCGGCA
CAAGTCCACCCGGCAGCGCTTTGCCATGAAGAAGATCAACAAGCAGAACCTGATCCTACGGAACCAGATCCAGCA
GGCCTTCGTGGAGCGTGACATACTGACTTTTCGCTGAGAACCCCTTTGTGGTCAGCATGTTCTGCTCCTTTGATAC
CAAGCGCCACTTGTGCATGGTGATGGAGTACGTTGAAGGGGGAGACTGTGCCACTCTGCTGAAGAATATTGGGGC
CCTGCCGTGTGGACATGGTGCGTCTATACTTTGCGGAACTGTGCTGGCCCTGGAGTACTTACACAACCTATGGCAT
CGTGCACCGTGACCTCAAGCCTGACAACCTCCTAATTACATCCATGGGGCACATCAAGCTCACGGACTTTGGACT
GTCCAAAATTGGCCTCATGAGTCTGACAACGAACCTGTATGAGGGTCATATTGAAAAGGATGCCCGGGAATTCCT
GGACAAGCAGGTATGCGGGACCCAGAATACATTGCGCCTGAGGTGATCCTGCGCCAGGGCTATGGGAAGCCAGT
GGACTGGTGGGCCATGGGCATTATCCTGTATGAGTTCTGGTGGGCTGCGTCCCTTTTTTTGGAGATACTCCGGA
GGAGCTCTTTGGGCAGGTGATCAGTGATGAGATTGTGTGGCCTGAGGGTGATGAGGCACTGCCCCCAGACGCCCA
GGACCTCACCTCCAAACTGCTCCACCAGAACCCTCTGGAGAGACTTGGCACAGGCAGTGCCTATGAGGTGAAGCA
GCACCCATTCTTTACTGGTCTGGACTGGACAGGACTTCTCCGCCAGAAGGCTGAATTTATTCCTCAGTTGGAGTC
AGAGGATGATACTAGCTATTTTGACACCCGCTCAGAGCGATACCACCACATGGACTCGGAGGATGAGGAAGAAGT
GAGTGAGGATGGCTGCCTTGAGATCCGCCAGTTCTCTTCTGCTCTCCAAGGTTCAACAAGGTGTACAGCAGCAT
GGAGCGGCTCTCACTGCTCGAGGAGCGCCGGACACCACCCCGACCAAGCGCAGCCTGAGTGAGGAGAAGGAGGA
CCATTACAGATGGCTGGCAGGGCTCAAAGGCCGAGACCGGAGCTGGGTGATTGGTCCCCCTGAGATATTACGGAA
GCGGCTGTGCGGTGTCTGAGTCATCCACACAGAGAGTGAATCAAGCCCTCCAATGACAGTGCGACGCCGCTGCTC
AGGCCTCCTGGATGCGCCTCGGTTCCCGGAGGGCCCTGAGGAGGCCAGCAGCACCCCTCAGGAGGCAACCACAGGA
GGGTATATGGGTCTGACACCCCATCTGGAGAGGGGGTATCTGGGCCTGTCACTGAACACTCAGGGGAGCAGCG
GCCAAAGCTGGATGAGGAAGCTGTTGGCCGGAGCAGTGGTTCCAGTCCAGCTATGGAGACCCGAGGCCGTGGGAC
CTCACAGCTGGCTGAGGGAGCCACAGCCAAGGCCATCAGTGACCTGGCTGTGCGTAGGGCCCCGCCACCGGCTGCT
CTCTGGGGACTCAACAGAGAAGCGCACTGCTCGCCCTGTCAACAAAGTGATCAAGTCCGCCTCAGCCACAGCCCT
CTCACTCCTCATTCTTCGGAACACCACACCTGCTCCCCGTTGGCCAGCCCCATGTCCCCACATTCTCAGTCGTC
CAACCCATCATCCCGGGACTCTTCTCCAAGCAGGGACTTCTTGCCAGCCCTTGGCAGCATGAGGCCTCCCATCAT

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FIGURE 213B

CATCCACCGAGCTGGCAAGAAGTATGGCTTCACCCTGCGGGCCATTTCGCGTCTACATGGGTGACTCCGATGTCTA
CACCGTGACCATATGGTGTGGCACGTGGAGGATGGAGGTCCGGCCAGTGAGGCAGGGCTTCGTCAAGGTGACCT
CATCACCCATGTCAATGGGGAACCTGTGCATGGCCTGGTGCACACGGAGGTGGTAGAGCTGATCCTGAAGAGTGG
AAACAAGGTGGCCATTTCAACAACCTCCCTGAGAACACATCCATTAAAGTGGGGCCAGCTCGGAAGGGCAGCTA
CAAGGCCAAGATGGCCCGAAGGAGCAAGAGGAGCCGCGGCAAGGATGGGCAAGAAAGCAGAAAAAGGAGCTCCCT
GTTCCGCAAGATCACCAAGCAAGCATCCCTGCTCCACACCAGCCGACGCTTTCTTCCCTTAACCGCTCCTTGTC
ATCAGGGGAGAGTGGGCCAGGCTCTCCACACACAGCCACAGCCTTTCCCCCGATCTCCCACTCAAGGCTACCG
GGTGACCCCCGATGCTGTGCATTAGTGGGAGGGAATTCATCACAGAGCAGCTCCCCAGCTCCAGCGTGCCCCAG
TTCCCCAGCCGGCTCTGGGCACACACGGCCCAGCTCCCTCCACGGTCTGGCACCCAAGCTCCAACGCCAGTACCG
CTCTCCACGGCGCAAGTCAGCAGGCAGCATCCCACTGTCCACACTGGCCCCACACCCCTTCTCCCCCACCCTAAC
AGCTTCACCTCAGCGGTCCCATCGCCCTGTCTGGCCATGTAGCCCAGGCCTTTCCCACAAAGCTTCACTTGTC
ACCTCCCTGGGCAGGCAACTCTCACGGCCCCAAGAGTGGGAGCCACCCCGTTCACTACTCAAGAGGGTGCA
GTCGGCTGAGAACTGGCAGCAGCACTTGCCGCTCTGAGAAGAAGCTAGCCACTTCTCGCAAGCACAGCCTTGA
CCTGCCCCACTCTGAATAAAGAAGGAAGTGCAGCCAGGGAAGTGAGCCCTCTGGAGGTAGTTGGAGCCAGGAG
TGTGCTGTCTGGCAAGGGGGCCCTGCCAGGGAAGGGGGTGTGTCAGCCTGCTCCCTCACGGGGCCCTAGGCACCCT
CCGGCAGGACCGAGCCGAACGACGGGAGTCGCTGCAGAAGCAAGAAGCCATTTCGTGAGGTGGACTCCTCAGAGGA
CGACACCGAGGAAGGGCCTGAGAACAGCCAGGGTGACAGGAGCTGAGCTTGGCACCTCACCCAGAAGTGAGCCA
GAGTGTGGCCCCATAAGGAGCAGGAGAGAGTGGGGAAGAGGATCCTTTCCCGTCCAGAGACCCTAGGAGCCTGGG
CCCAATGGTCCCAAGCCTATTGACAGGGATCACACTGGGGCTCCCAAGATGGAAAGTCCAGTGGTCCCCACAG
GAGGCTCGGGAGCCCACAAGCCATTGAGGAGGCTGCCAGCTCCTCCTCAGCAGGCCCCAACCTAGGTGAGTCTGG
AGCCACAGACCCCATCCCTCCTGAAGGTTGCTGGAAGGGCCAGCACCTCCACACCCAGGCACTAACAGCACTTTC
TCCCAGCACTTCGGGACTCACCCCCACCAGCAGTTGCTCTCCTCCCAGCTCCACCTCTGGGAAGCTGAGCATGTG
GTCTTGGAATCCCTTATTGAGGGCCCAGACAGGGCATCCCCAAGCAGAAAGGCAACCATGGCAGGTGGGCTAGC
CAACCTCCAGGATTTGGAACACAACCTCCAGCCCAGCCTAAGAACCTGTCTCCAGGGAGCAGGGGAAGACACA
GCCACCTAGTGCCCCAGACTGGCCCATCCATCTTATGAGGATCCCAGCCAGGGCTGGCTATGGGAGTCTGAGTG
TGCACAAGCAGTGAAAGAGGATCCAGCCCTGAGCATCACCAAGTGCCTGATGCCTCAGGTGACAGAAGGCAGGA
CGTTCCATGCCGAGGCTGCCCCCTCACCCAGAAGTCTGAGCCCAGCCTCAGGAGGGGCCAAGAACCAGGGGGCCA
TCAAAAAGCATCGGGATTTGGCATTGGTTCCAGATGAGCTTTTAAAGCAAACATAGCAGTTGTTTGCCATTTCTTG
CACTCAGACCTGTGTAATATATGCTCCTGGAAACC

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FIGURE 214

GCAAGATGGTGGGTGAAAAAGTTGAGAAGCCAGATGCTAAAGAGAAGAAACCCAAAGCCAAGAAGGCTGATGTTG
GTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGAAAGCCCCATTGCAGCCGCAACCCTG
TCCTTGTCAGAGGAATTGGCAGGTATTGCCGATCTGCCATGTATTCCAGAAAGGCCATGTACAAGAGGAAGTACT
CAGCCGCTAAATCTAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAAACCAGTTGGTTGTG
ACAAGAATGGCGGTGCCCCGGGTGGTTAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGATGTGCCTCGAA
AGCTGTTGAGCCATGGCAAAAAATCCTTCAGTCAGCACGTGAGGCCATAGGGGCAAGAAGGTGGTTTTCTGAAG
CAGCTGGCTAGTGGTTTGTACTTGTGACTGGACCTCTGGTCCTCAATCGAATTCTCTACGAAGAACATACCAG
AAATTTGTCATTGCCAC

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FIGURE 215

MVGEKVEKPDAKEKKPKAKKADVGGKVKKGNLKAKKPKKGKPHCSRNPVLVRGIGRYCRSAMYSRKAMYKRKYSA
AKSKVEKKKKEKVLATVTKPVGCDKNGGARVVKLRLKMPRYPTEDVPRKLLSHGKKSFSQHVRP

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FIGURE 216

AATCTGCCATTTTCTGTCCCTGAGTGAGTCTCTGGCGTCCCAAATTGCCTGTTTTTCTCGCAGGCTCTATTCCGT
TCGCTGGTTTCGCCACCTCAGGGGAACGATGCCCATGGAGTCCACAGCCACTGCCGCCGTGCCCGCGGAGCTGGTT
TCTGCCGACAAAATTGAAGATGTTCTCTCTACATCTGCAGATAAAGTGGAGAGTCTGGATGTGGATAGT
GAAGCTAAGAACTATTGGGTTTAGGACAGAAACATCTGGTGATGGGGGATATTCCAGCAGCTGTCAATGCATTC
CAGGAAGCAGCTAGTCTTTTAGGTAAGAAGTATGGAGAGACAGCTAATGAGTGTGGAGAAGCCTTCTTTTTCTAT
GGGAAATCACTTCTGGAGTTGGCAAGAATGGAGAATGGTGTTGGGAAACGCCTTGGAAGGTGTGCATGTGGAA
GAGGAAGAAGGAGAAAAACAGAAGATGAATCTCTGGTAGAAAATAATGATAACATAGATGAGGAAGCAAGGGAA
GAGTTGAGAGAACAGGTTTATGACGCCATGGGAGAAAAAGAAGCCAAAAAACAGAAGACAAGTCTTTGGCA
AAGCCTGAACTGATAAAGAACAGGACAGTGAAATGGAGAAGGTGGAAGAGAAGATATGGATATAAGTAAATCT
GCAGAGGAGCCACAGGAAAAAGTTGACTTGACTCTAGATTGGTTAACTGAAACCTCTGAAGAGGCCAAAAGGAGGA
GCAGCACCAGAAGGACCGAATGAAGCTGAGGTCACTTCTGGGAAGCCAGAACAGGAAGTACCAGATGCTGAGGAA
GAAAAATCAGTTTCTGGAATGATGTCCAAGAAGAGTGCAGAGAAAAAGGAGGTGAGGAGAAGCAGGGAGAGGTA
ATTGTGAGCATAGAGGAGAAGCCAAAAGAAGTTTTCAGAAGAGCAGCCTGTGGTGACTCTAGAAAAGCAGGGCACT
GCAGTGGAGGTAGAAGCAGAGTCTTTAGACCCGACAGTCAAGCCAGTGGATGTGGGTGGGGACGAGCCAGAGGAG
AAGGTAGTTACCTCTGAAAACGAGGCAGGAAAGGCGGTTCTTGAACAACCTGGTAGGTCAAGAAGTACCACCTGCT
GAAGAGTCACCAGAGGTGACAACAGAGGCTGCAGAGGCCTCAGCTGTAGAGGCTGGATCAGAAGTCTCTGAAAAG
CTGGGCAGGAGGCTCCAGTTCTCCCTAAGGATGGTGACGTCAATGGACCGTCAGTTGTAGGAGATCAGACTCCT
ATTGAACCACAGACTTCTATAGAAAAGACTGACAGAAACAAAAGATGGCTCAGGACTAGAGGAGAAGGTCAGGGCA
AAGCTGGTTCTTAGTCAGGAGGAGACTAAGCTGTCTGTAGAAGAGTCTGAGGCAGCTGGAGATGGGGTTGATACC
AAGGTAGCCCAGGGAGCTACTGAGAAATCACCTGAAGACAAAGTTTCAGATAGCTGCTAATGAAGAGACACAAGAG
AGAGAAGAACAGATGAAAGAGGGTGAAGAACTGAAGGCTCAGAAGAGGATGATAAAGAAAATGATAAGACCGAA
GAAATGCCAAATGATTTCAGTCCTTGAAAACAAGTCTCTTCAAGAAAATGAGGAGGAGGAGATTGGGAACCTAGAG
CTTGCCCTGGGATATGCTGGATTTAGCAAAGATCATTTTTTAAAAGGCAAGAAACAAAAGAAGCACAGCTTTATGCT
GCCCAGGCACATCTTAAACTCGGAGAAGTTAGTGTGAATCTGAAAACATATGTGCAAGCTGTGGAGGAGTTCCAG
TCCTGCCTTAACCTGCAGGAACAGTACCTGGAAGCCACGACCGTCTCCTTGAGAGACCCACTACCAGCTGGGC
TTGGCTTATGGGTACAACCTCTCAGTATGATGAGGCAGTGGCACAGTTTCAGCAAATCTATTGAAGTCATTGAGAAC
AGAATGGCTGTACTAAACGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGCTGAATACAAGAAAGAAATGAGGAA
CTAAAGGAAGTGTACCCGAAATTAGAGAGAAGATAGAAGATGCAAAGGAGTCTCAGCGTAGTGGGAATGTAGCT
GAACTGGCTCTGAAAGCTACTCTGGTGGAGAGTTCTACTTCAGGTTTCACTCCTGGTGGAGGAGGCTCTTCAGTC
TCCATGATTGCCAGTAGAAAGCCAACAGACGGTGCTTCCTCATCAAATTGTGTGACTGATATTTCCACCTTGTC
AGAAAGAAGAGGAAACCAGAGGAAGAGAGTCCCCGGAAGATGATGCAAAGAAAGCCAAACAAGAGCCGGAGGTG
AACGGAGGCAGTGGGGATGCTGTCCCCAGTGGAATGAAGTTTCGGAACATGGAGGAGGAGGCTGAGAATCAG
GCTGAAAGCCGGGCAGCAGTGGAGGGGACAGTGGAGGCTGGAGCTACAGTTGAAAGCACTGCATGTTAAGAGGGG
GCACAGCCCTCCTCCAAGGGAAAGTGTTTTTGTATATAATGTATTTTTTCACTTTTGGAGGATTCTTTTTGTAT
AACTTCAATAAAGATTGTAAGCAAAGGTTGAGGCTTTGATGGTTTTTTTCTTAATTATTGGCTGAATCTGCCTTG
GAGCACTGCTGGTTTTATATATTAGCCAAAGGTTTTGTTCTGGCCTTCTGTACTGATCTGTGTTCCIGATCCTAA
TTCCTATCTGTCTAACGTGGAGGTGATCAAGTGTGGCTGTAGGCCTTTGTTTTCCAATGGTGCTATATTCTGTTT
TCAAACACTTCACTGAACCCAGCTGTCTTGCAAACCTTCAGTGGTGCTGTCCCTGGATGGGGGCTACAAAAACAA
GAATTGGTGAAGATCTTGCTCTTCAGTGCTGAAAATGGATGATGGACTTTGGCTGTGAGCCAGGCCCTAGGATGGT
TCTTGCTCTATATCCACCTAGTCTTCACCTGGGGCTATAATTCTGTCTCGAAAAAGAACTCTGAAAACCTGGGT
CAGGGGAATGATTCTAAGGAAAACGGTCTGCATTGAGCTCTGGTTTTGAAAGTAGCCAAGGGGACTGATGGTGG
ACACTCCAGATGTGGTTGGAAGCATATGTGGGGAGGCTGGCTGGTTGAGTTTTGTTATTTTCTGTATAGAAAGGT
TGAGATATATCAACACTTGGAATTGTTACCCATCTGCAGAATTGACTTCTCAAATAAAGATGCTAAAAATCT

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FIGURE 217

MAMESTATAAVAAELVSADKIEDVPAPSTSADKVESLDVDSEAKLLGLGQKHLVMGDIPAAVNAFQEAASLLGK
KYGETANECGEAFFFYGKSILLELARMENGLGNALGVHVEEEEGEKTEDESIVENNDNIDEEAREELREQVYDA
MGEKEEAKKTEDKSLAKPETDKEQDSEMEKGGREDMDISKSAEEPQEKVDLTLDWLTETSEEAKGGAAPEGPNEA
EVTSGKPEQEVPDAAEEKSVSGTDVQEECREKGGQEKQGEVIVSIEEKPKEVSEEQPVVTLKQGTAVEVEAESL
DPTVKPVDVGGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAEESPEVTTEAAEASAVEAGSEVSEKPGQEAPVLP
KDGAVNGPSVVGDQTPIEPQTSIERLTETKDGSGLEEKVRACLVPQEETKLSVEESEAAAGDGVDTKVAQGATEK
SPEDKVQIAANEETQEREEQMKEGEETEGSEEDDKENDKTEEMPNDSVLENKSLQENEEEEIGNLELAWDMLDLA
KIIFKRQETKEAQLYAAQHLKLGEVSVESENYVQAVEEFQSCLNLQEYLEAHDRLLAETHYQLGLAYGYSQY
DEAVAQFSKSIEVIENRMAVLNEQVKEAEGSSAEYKKEIEELKELLPEIREKIEDAKESQSRSGNVAELALKATLV
ESSTSGFTPGGGGSSVSMIASRKPTDGASSSNCVTDISHLVRKKRKPEEESPRKDDAKKAKQEPEVNGGSGDAVP
SGNEVSENMEEEAENQAESRAAVEGTVEAGATVESTAC

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FIGURE 218

AGCCAGAAATGTGAAGTGCTAGCTGAAGGATGAGCAGCAGCTAGCCAGGCAAAGGGGGCAATGGCGGCTTCCTGT
GTTCTACTGCACACTGGGCAGAAGATGCCTCTGATTGGTCTGGGTACCTGGAAGAGTGAGCCTGGTCAGGTAAAA
GCAGCTGTTAAGTATGCCCTTAGCGTAGGCTACCGCCACATTGATTGTGCTGCTATCTACGGCAATGAGCCTGAG
ATTGGGGAGGCCCTGAAGGAGGACGTGGGACCAGGCAAGGCGGTGCCTCGGGAGGAGCTGTTTGTGACATCCAAG
CTGTGGAACACCAAGCACCACCCGAGGATGTGGAGCCTGCCCTCCGGAAGACTCTGGCTGACCTCCAGCTGGAG
TATCTGGACCTGTACCTGATGCACTGGCCTTATGCCTTTGAGCGGGGAGACAACCCCTTCCCAAGAATGCTGAT
GGGACTATATGCTACGACTCCACCCACTACAAGGAGACTTGAAGGCTCTGGAGGCACTGGTGGCTAAGGGGCTG
GTGCAGGCGCTGGGCCTGTCCAACCTCAACAGTCGGCAGATTGATGACATACTCAGTGTGGCCTCCGTGCGTCCA
GCTGTCTTGCAAGGTGGAATGCCACCCATACTTGGCTCAAAATGAGCTAATTGCCCCTGCCAAGCACGTGGCTTG
GAGGTAAGTGCCTTATAGCCCTTTGGGCTCCTCTGATCGTGCATGGCGTGATCCTGATGAGCCTGTCCTGCTGGAG
GAACCAGTAGTCCTGGCATTGGCTGAAAAGTATGGCCGATCTCCAGCTCAGATCTTGCTCAGGTGGCAGGTCCAG
CGGAAAGTGATCTGCATCCCCAAAAGTATCACTCCTTCTCGAATCCTTCAGAACATCAAGGTGTTTGACTTCACC
TTTAGCCCAGAAGAGATGAAGCAGCTAAATGCCCTGAACAAAAATTGGAGATATATTGTGCCTATGCTTACGGTG
GATGGGAAGAGAGTCCCAAGGGATGCAGGGCATCCTCTGTACCCCTTTAATGACCCGTACTGAGACCACAGCTTC
TTGGCCTCCCTTCCAGCTCTGCAGCTAATGAGGTCTGCCACAACGGAAAGAGGGAGTTAATAAAGCCATTGGAG
CATCCAT

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FIGURE 219

MAASCVLLHTGQKMPLIGLGTWKSEPGQVKAASKYALSVGYRHIDCAAIYGNEPEIGEALKEDVGPGKAVPREEL
FVTSKLWNTKHHPEDVEPALRKTLADLQLEYLDLYLMHWPYAFERGDNPFPKNADGTICYDSTHYKETWKALEAL
VAKGLVQALGLSNFNSRQIDDILSVASVRPAVLQVECHPYLAQNELIAHCQARGLEVTAYSPLGSSDRAWRPDE
PVLLEEPVVLALAEKYGRSPAQILLRWQVQRKVICIPKSITPSRILQNIKVFDFTFSPPEMKQLNALNKNWRYIV
PMLTVDGKRVRDAGHPLYPFNDPY

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FIGURE 220

GTTCCTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAAT
GCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAG
ATCATTGCTTTTCAGTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCACTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTA
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAAACATGGGGAAGTGTGCCAGCTGGCTGGAAACCTGGC
AGTGATACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTTCCATTAGTAAAACACAAG
ACTTCAGATTACGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCTACAGGGGGTGGAGAGACCAGCCTTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGTTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTTGTAGTTTGTATTAACTTGAAC TGAG

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FIGURE 221

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLSDYKGKYVVFFFYPLDFTFVCPTEIIAFSDRAEEFKKLNQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGVKKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 222

GCTCGGCTCACTGAGACCCGGTGGTCCAGACGCTGCTCCTGGCTGGGGTGGCGCTGCAGGGAGAACC GCGAGCTC
TCAGGGGTTCGGCGGGTGACTTCTTTCCGGAAGAAAGCGAGGAACGCGCTCTGCGGGGTGAGCCGGACTCCCCAAC
TCCGGACGATCAGCCCAGGACTGAGAGCCCCGAAGTCCCCAACCACAAGTAAGCGGCCCCAGAAGGACAAGTCTA
GGTCGCCGTCCAGAGCGCCATGGGCCGCGCCCGCCCTTCGTTTGTGCCACATCGCCTTCCACGTGCCCCGCCGGGCA
GCCCCTAGCCCGGAACCTGCAGCGCCTCTTCGGCTTCCAGCCCCTGGCTTCGCGGGAGGTGGACGGCTGGCGGCA
GCTAGCCCTGCGCAGCGGGCAGCGGCTCTTTTGGTGAACGAGGGCGCAGGGTCTGGAGAGCCGCTGTACGGCCT
GGATCCGCGTCAAGCCGTGCCCAGCGCCACAAACCTGTGCTTCGACGTGGCGGACGCCGGCGCTGCAACCCGGGA
GCTGGCAGCGCTGGGCTGCAGCGTGCTGTCCCTCCCGTTTCGCGTGCGGGACGCGCAGGGTGCCGCCACTTACGC
CGTGGTCAGCTCGCCTGCCGGCATCCTCAGCCTGACCTTGCTGGAGCGCGCTGGCTACCGCGGACCCTTCCTACC
CGGCTTCAGGCCCCGTGTCTCTGCGCCTGGCCCCGGGTGGGTACGCCGCTGGACCACCTGACCTTGGCCTGCAC
CCCCGGCAGCTCCCCACACTTTTGCCTGGTTCCACGACTGCCTGGGCTTTTGCCACTTGCCGCTGAGCCCAGG
TGAGGATCCCGAGCTGGGCCTCGAAATGACAGCAGGGTTTGGGCTTGGGGGACTGAGGCTTACAGCCCTGCAGGC
CCAGCCGGGCAGCATTGTCCCCACTCTTGTCTGGCTGAGTCCCTTCCGGGGGCGACGACACGACAGGACCAGGT
GGAGCAGTTCTTGGCCCGGCACAAGGGGCCAGGCCTGCAGCACGTGGGGCTGTATACGCCTAACATTGTGGAGGC
CACTGAGGGGGTGGCAACTGCTGGAGGCCAGTTCTGGCTCCCCCTGGGGCATACTACCAGCAGCCAGGAAAGGA
GAGGCAGATCCGAGCTGCAGGGCACGAGCCTCATCTGCTTGCTCGACAGGGGATCCTGCTAGATGGTGATAAAGG
CAAGTTTCTGCTTCAGGTCTTCACCAAGTCCCTTTTTACTGAGGACACTTTCTTCTGGAGCTGATTAGAGGCA
GGGGGCCACTGGCTTTGGTCAGGGCAACATCAGAGCTCTGTGGCAGTCCGTACAGGAGCAATCTGCCAGGAGCCA
GGAAGCCTAAGGATGCCCAGGGCTGGGTGCAGCCAGCTGTCTGCAGCTCTGGGGAGACCAGCACAGAAGTGGG
AACATCTGCAGGAGGCCCAACTAGTGAAAGGCTTTGCCTCCGGGGGGCAGGTGTGACTTCCATTTTCATCAGTGCC
TGCCAGAAGCTGTGTCTCTCATTGGGCTCCAAAGAGGTGGGATTTTTTAAAGTAAAGCAATTTCTTATATACAGT
CTATAATAAATATGTAAGATACAAAGAACAATAAAGAATTACACACTAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 223

MAAPALRLCHIAFHVPAGQPLARNLQRLFQPLASREVDGWRQLALRSGDAVFLVNEGAGSGEPLYGLDPRHAV
PSATNLCFDVADAGAATRELAALGCSVPVPPVRVRDAQGAATYAVVSSPAGILSLTLERAGYRGPFLPGFRPVS
SAPGPGWVSRVDHLTLACTPGSSPTLLRWFHDCLGFCHLPLSPGEDPELGLEMTAGFGLGGLRLTALQAQPGSIV
PTLVLAESLPGATTRQDQVEQFLARHKGPGLQHVGLYTPNIVEATEGVATAGGQFLAPPGAYYQQPGKERQIRAA
GHEPHLLARQGILLDGDKGKFLQVFTKSLFTEDTFFLELIQRQGATGFGQGNIRALWQSVQEQSARSQEA

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FIGURE 224

GACCACGATGAGTGTGCCGCACTTCCGGCCAGATCGCCGGATTTCGCTGAGTGACCCTTACAAGTCCTTCTTGA
TCCTGAACTGGGTTAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAGACATGGGACTGGAGGA
CGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCCT
AACAACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGA
GCGTGTATCCTCTCGATCACATACAGAAGAGGATTGCACGGAGGAGCTCTTTGACTTCTTGCA TGCGAGGGACCA
TTGCGTGGCCCAAACTCTTTAACAACCTGAAATTAAATGTGTGGACTTAATTCACCCCAGTCTTCATCATCTGG
GCATCAGAATATTTCTTATGGTTTTGGATGTACCATTTGTTTCTTATTTGTGTAAGTTTACATGAACC
TCATGGGTTTGGCTTAGGCTGGTAGCTTCTATGTAATTCGAATGATTCCATCTAAATAAAAGTTCTATGATCTG

C

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FIGURE 225

MGLEDEQKMLTESGDPEEEEEEEELVDPLTTVREQCEQLEKCVKARERLELCDERVSSRSHTTEEDCTEELFDFL
HARDHCVAHKLFNNLK

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FIGURE 226

CGCGCCTGAGGAGGAGGAGGAGGCGGGGGCGGCCATGGCTGCTGTGGTGGTGGCGGCTGCGGGTGGCGCGGGACC
GGCGGTCTGCAGGTGGCCGGTCTCTACCGGGGCCTGTGCGCGGTGCGCAGCCGCGCCCTGGGCCTGGGGCTCGT
GTCACCCGCGCAGCTGCGCGTCTTCCCAGTGCGCCCCGGCTCGGGCCGGCCGAGGGGGCGCCGACAGCAGCGG
GGTCGGGGCCGAGGCCGAGCTCCAGGCCAACCCCTTTCTACGACCGCTACCGCGACAAGATCCAGCTGCTGCGCAG
GTCAGACCCAGCTGCTTTTGAGTCCC GCCTGGAGAAACGCAGTGAATTCGGAAGCAGCCAGTGGGGCATTCCAG
GCAAGGTGATTTTATCAAATGTGTGGAACAGAAGACAGATGCCTTGGGGAACAGTCTGTGAACAGAGGATTAC
TAAGGACAAGACTCTCAGTTCAATCTTTAACATTGAGATGGTAAAAGAAAAACTGCAGAAGAAATAAAACAGAT
TTGGCAGCAATATTTTGCAGCAAAAAGATACAGTCTACGCAGTTATTCTGCAGAAAAGTTTGATTGATCTGGAA
CCGGGCTCAGTCCTGTCCAACATTTCTATGTGCTCTGCCAAGAAGGGAAGGTTATGAGTTTTTTGTAGGACAATG
GACAGGTACTGAACTCCACTTCACTGCATTATAAATATTAGACCCGAGGGGAAGCTGCAGCCAGCCAGCTGAT
TTTATATCACTATCCTGAACTTAAGGAAGAAAAGGGCATAGTGCTGATGACTGCAGAAATGGATTCCACATTTCT
GAATGTTGCTGAGGCACAGTGCATCGCCAACCAAGTTCAGCTCTTCTACGCTACTGATCGGAAAGAGACCTACGG
GTTAGTGGAGACCTTTAACCTCAGACCAAATGAGTTCAAATATATGTCTGTCTATCGCTGAATTGGAGCAAAGCGG
ACTTGGAGCAGAACTGAAATGTGCCCAGAACC AAAATAAGACTTAGAACTGTACAGGTTGGCCCTTCACCTAGTT
GACTCAGCCCTCGATAGTCTAGAGCCACCCCTCCTCAGGAAGCTCAAGAGCTCAGCATTTATAATGAGCAGTTG
GTAATGAGTTGCCCTATGTGCTTGTGCAAGCAGTCACAGAGATGAGCCCTATTACTTGATATTCAGGAACAAAG
GTACCTGAACATTCTGATAATTATCTCAGCATACTTGAGGTTTCCTTTTTTAAGTGTTGAGGTTATAACAAGAG
ACAGCCAAGGACCTACAAGACAGTTGACTTGATTTTGACAGTGTAACAGCGCAGTTGCATTCTGGCCACTTTGA
CCTTATAGCTCCCAAATGATGAGTTTGTCTCTTTATGAACTCATGACAGGATAATAAGCTTGAAGACCTGCTGT
AGTTAGATATGGGCTTTAATCCTTCCCAGGCACCAGTCAGCTGAACAAAAGCATAAGCCAAACATCCTGTTTAA
CTGTAGAATAACCAGATATTCCCATCAGGTTAAAGACTTCATCTAGATGATGCCCCCAGAGATGCCTTTAGTGT
AAGTAGCTGGCTTGGGGTATCAGCAAATTTAGGTATAGTTAGATAAACAGGTACAGGGCCTGCATACTATTAA
CCATAGTTTGTGGCACCCGCTTTTCTAACTCCACCTGTTAGAAGCTATGTGTTGAAGGAATGAATCAGTGCAGT
ATAAATAAAATTCTTTTGTAAAGGAG

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FIGURE 227

MAAVVVAAGGAGPAVLQVAGLYRGLCAVRSRALGLGLVSPAQLRVFPVRPGSGRPEGGADSSGVGAEEAELQANP
FYDRYRDKIQLLRRSDPAAFESRLEKRSEFRKQPVGHSRQGDFIKCVEQKTDALGKQSVNRGFTKDKTLSSIFNI
EMVKEKTAAEEIKQIWQQYFAAKDTVYAVIPAEEKFDLIWNRAQSCPTFLCALPRREGYEFFVGQWTGTELHFTALI
NIQTRGEAAASQLILYHYPELKEEKGIVLMTAEMDSTFLNVAEAQCIANQVQLFYATDRKETYGLVETFNLRPNE
FKYMSVIAELEQSGLGAEKCAQNQNKT

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FIGURE 228

ACCTGCCCTCATCTGGCCCCGCGACTGTAAGACCGGACCCACATCCAGACCAATCTTCTGTCCGGCTGCTGCGA
CGCGGTCCGCAGGTTGCAGGCGGGCGGCCGGGGCGCCTGAAGGTTACCGAGTGCATGACGGCCTCAGTTCCC GCG
CTGCCCCGCCCCGCTGGCCCCGCCGACCTCCCCGCCGCTCGCCCCGCCAGCCCCCTCGGGCCCCGGCGGCGGCGGCGG
GTGGCGGCGACGGTTCGCAGGAGGTGCCGTCTGCCTCCCAGGTGCGCGCTTCGCTCCCCGGAGCCGCGGAACTCGGT
CGCGCCATGGCGTCCAACATGGACCGGGAGATGATCCTGGCGGATTTTCAGGCATGTACTGGCATTGAAAACATT
GACGAAGCTATTACATTGCTTGAACAAAATAATTGGGACTTAGTGGCAGCTATCAATGGTGTAAATACCACAGGAA
AATGGCATTCTACAAAGTGAATATGGAGGTGAGACCATAACCAGGACCTGCATTTAATCCAGCAAGTCATCCAGCT
TCAGCTCCTACTTCTCTTCTTCTTCAGCGTTTCGACCTGTAATGCCATCCAGGCAGATTGTAGAAAGGCAACCT
CGGATGCTGGACTTCAGGGTTGAATACAGAGACAGAAATGTTGATGTGGTACTTGAAGACACCTGTACTGTTGGA
GAGATTAAACAGATTCTAGAAAATGAACCTCAGATACCTGTGTCCAAAATGCTGTTAAAAGGCTGGAAGACGGGA
GATGTGGAAGACAGTACGGTCTTAAATCTCTACACTTGCCAAAAACAACAGTCTTTATGTCCTTACACCAGAT
TTGCCACCACCTTCATCATCTAGTCATGCTGGTGCCTGCAGGAGTCATTAAATCAAACTTCATGCTGATCATC
ACCCACCGAGAAGTCCAGCGGGAGTACAACCTGAACTTCTCAGGAAGCAGTACTATTCAAGAGGTAAAGAGAAAT
GTGTATGACCTTACAAGTATCCCCGTTGCCACCAATTATGGGAGGGCTGGCCAACTTCTGCTACAGACGACTCA
ATGTGTCTTGCTGAATCAGGGCTCTCTTATCCCTGCCATCGACTTACAGTGGGAAGAAGATCTTCACCTGCACAG
ACCCGGGAACAGTCGGAAGAACAATCACCAGTGTTTCATATGGTTAGTGATAGCGATGGAGATGACTTTGAAGAT
GCTACAGAATTTGGGGTGGATGATGGAGAAGTATTTGGCATGGCGTCATCTGCCTTGAGAAAATCTCCAATGATG
CCAGAAAACGCAGAAAATGAAGGAGATGCCTTATTACAATTTACAGCAGAGTTTTCTTCAAGATATGGTGATTGC
CATCCTGTATTTTTTTATTGGCTCATTAGAAGCTGCTTTTCAAGAGGCCTTCTATGTGAAAGCCCGAGATAGAAAG
CTTCTTGCTATCTACCTCCACCATGATGAAAGTGTTTAAACCAACGTGTTCTGCTCACAAATGCTTTGTGCTGAA
TCCATTGTTTCTTATCTGAGTCAAAATTTTATAACCTGGGCTTGGGATCTGACAAAGGACTCCAACAGAGCAAGA
TTTCTCACTATGTGCAATAGACACTTTGGCAGTGTTGTGGCACAAACCATTTCGGA CTCAAAAAACGGATCAGTTT
CCGCTTTTCTTGATTATTATGGGAAAGCGATCATCTAATGAAGTGTTGAATGTGATACAAGGGAACACAACAGTA
GATGAGTTAATGATGAGACTCATGGCTGCAATGGAGATCTTCACAGCCCAACAACAGGAAGATATAAAGGACGAG
GATGAACGTGAAGCCAGAGAAAATGTGAAGAGAGAGCAAGATGAGGCCTATCGCCTTTCACTTGAGGCTGACAGA
GCAAAGAGGGAAGCTCACGAGAGAGAGATGGCAGAACAGTTTCGTTTGAGAGCAGATTTCGCAAAGAACAAGAAGAG
GAACGTGAGGCCATCCGGCTGTCCTTAGAGCAAGCCCTGCCTCCTGAGCCAAAGGAAGAAAATGCTGAGCCTGTG
AGCAAACCTGCGGATCCGGACCCCCAGTGGCGAGTTCTTGAGCGGCGTTTCTTGCCAGCAACAAGCTCCAGATT
GTCTTTGATTTTGTAGCTTCCAAAGGATTTCCATGGGATGAGTACAAGTTACTGAGCACCTTTCTAGGAGAGAC
GTAACCTCAACTGGACCCAAATAAATCATTATTGGAGGTAAAGTTGTTCCCTCAAGAAACCCTTTTCTTGAAGCA
AAAGAGTAAACACGGCCAGCGGTGGAACCAGCCATTCCCTGACAAGCCAGCAGCCTGCGTCAGGAGAAGGGCTC
CTCGCCAACCCACCCACACGCTCGTCTCACTCAATTCAATGTCACTTCTGCCTCTTGCAAAATTGCTGGAAAA
AGTAATAATAAATATAGCTACTTAAAAAAA

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FIGURE 229

CTCTGCCGAGCCTCCTTAAAACTCTGCCGTTAAAAATGGGGGCGGGTTTTTCAACTCAAAAAGCGCTCAATTTTTT
TCTTTTCAAAAAAGCTGATGAGGTTCGGAAAAAAGGGAGAAGAAACCGGCACCCTCTCTGAGAGGCAACAGAAGC
AGCAATTGTTTCAGCGAAAAAAGCAGCAAGGGAGGGAGTGAAGGAAAAAAGCAAAAAGGGGGCGACACGCAAGT
GCCTGTAGGGGTGAAAAGGAGCAGGGACCGCGCATCTAGGGGGGGATCAGCTACAAAAGAAACTGTCACTGGGAGC
GGTGCGGCCAAGGAGGAAGCAGTGCTGCCAGGCTCTGCTCCAGGGCACAGCTGGCTGGCGGGCTGCCCTGTCCGCA
GCAAAGGGGCACAGGCCGGGGACCGCGAGAGGTGGCAAAGTGGCACCGGGCGCCGAGGCTGCTGAGCGCTCGCCG
AGACGGCGACCGGACTGGCTGCCCCGGAACCTGCGGCGACTCTCCCTACTCAGAACTTGGCCTACGTTTCCAGGA
CTCTCCCCATCTCCAGAGGCCCCACAAAACCGGGAAGGAAGGAAAGGACAGCGGGCGGACAGCTCAATGAGT
GCCTACAGCAGAAAGCCTGAACGAGCTCGGTCTGAGGCGGAAGTTCCCGGGGGGGCTGCCAGTGCAGCCGCAA
TGCTGCCGCGAGCTGCCCCAGCAGTCCGGGCTCCGTAGACGCTTTCCGCATCACTCTCCTTCCTCGGGCTGCCGG
GAGTCCCGGGACCTGGCGGGGGCCGGCATGACGGGCTTCTCGGGGGCCCCGCCGACGCCCCGGCAGCCTCCGGAGAC
GCGCGCCGAGCCCGGCTCCACGGCCTCTGAGGCTCGGCGGGGCTGCGGCTGCCTGGCGGGCGGGCTCCGGAGCT
TTCCTGAGCGGCATTAGCCACGGCTTGGCCCGGACGCGACCAAAGGCTCTTCTGGAGAAGCCCAGAGCACTGGG
CAATCGTTACGACCTGTAACCTGAGGGCCACCGAAGTCTACTCCCGTTCGCCTTTGGCGATCATCTTTTAACCC
TCCGGAGCACGTCAGCATCCAGCCACCGCGGCGCTCTCCAGCAGCGGAGGACCCAGGACTATCCCTTCGGCGAG
ACGGATGGAAACCGAGCCCCCTGGAGGACCTGCCCCTGCAGTTCTGCCTCACACGGCTCAAGTCACCACCGTGAA
CAAGGGACCTAAAGAAATGCGCCGAGCCTTGGGGGAACGAGTTGGCGTCCGCAGCTGCCAGGGGGGACCTAGAGCA
ACTTACTAGTTTGTGCAAAATAATGTAAACGTCAATGCACAAAATGGATTGGAAGGACTGCGCTGCAGGTTAT
GAAACTTGGAATCCCGAGATTGCCAGGAGACTGCTACTTAGAGGTGCTAATCCCGATTGAAAGACCGAACTGG
TTTCGCTGTCAATTCATGATGCGGCCAGAGCAGGTTTCTGGACACTTTACAGACTTTGCTGGAGTTTCAAGCTGA
TGTTAACATCGAGGATAATGAAGGGAACCTGCCCTTGCACTTGGCTGCCAAAGAAGGCCACCTCCGGGTGGTGGA
GTTCTTGTTGAAGCACACGGCCAGCAATGTGGGGCATCGGAACCATAAGGGGGACACCGCCTGTGATTTGGCCAG
GCTCTATGGGAGGAATGAGGTTGTTAGCCTGATGCAGGCAAACGGGGCTGGGGGAGCCACAAATCTTCAATTAAC
GTGGGGAGGGCTCCCCACGTTGCCTCTACTTTATCAATTAAGTGAAGTAGCTCTCCTGACTTTTAATGTCAATTTG
TTAAAATACAGTTCTGTCAATATGTTAAGCAGCTAAATTTTCTGAACTGCATAAGTGAAAATCTTACAACAGGCT
TATGAATATATTTAAGCAACATCTTTTTAACCTGCAAAATCTGTTCTAACATGTAATTGCAGATAACTTTGACTT
TCTTCTGAATATTTTATCTTTCTTGGCTTTTCCCTTGCTTCCCCTTTTGCCAATCTCAACACCCAAGTTGAAGA
CTTTGTTTTTAAATGGTTTGTCTGATGCTTTTGTCTAATTAACACTTTCAAAACAGGAAAAAAAAAAAAAA
AAAA

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FIGURE 230

MAEPWGNELASAAARGDLEQLTSLQNNVNVNAQNGFGRTALQVMKLGNPEIARRLLLRGANPDLKDRTGFAVIH
DAARAGFLDTLQTLLEFQADVNIEDNEGNLPLHLAAKEGHLRVVEFLVKHTASNVGHRNHKGD TACDLARLYGRN
EVSLSMQANGAGGATNLQ

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FIGURE 231

AAAACACCAAATGGTGGATGACACCAGTGCAGCGGGGGGGGGCCCGGAGGCCCTGGGATGGGGAAGTGCGGTGGC
TTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCAGCCGTAGACGGGGCCGGGGCCGAGGCCGCGGA
GCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCCGTACCAAGCTGGGCTGCTTGTTGAAGGACATGAAG
ATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTTCTGGGG
GCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGACGCAGACCCGTGCTGGCCAGCGCACCAGGTTT
AAGGCGTTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGTCCAAGGAGGTGGCCACC
GCCATCCATGGGGCCATCATCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGGGGAACAAGATT
GGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGCACTGGTGCACCTCATCCCTGTACCC
AGGGGCACTGGCATTGTCTCCGCACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTGCACC
TCAGCCTGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGC
TACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCGATCAGGAATTCAGTACCACCTCATC
AAGGCCACGCCAGAGTCTCCGTGCAGCGGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTTAGACAAGG
AAAATAAAGCGAATTAAGCGT

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FIGURE 232

MGNCGGFRGGFGSGIRGRGRSRRRGRGRGRGARGGKAEDKEWMPVTKLGCLVKDMKIKSLEEIYLFSLPIKESEI
IDFFLGASLKDEVLKIMPVQTQTRAGQRTRFKAFVAIGDYNGHVGLGVKCSKEVATAIHGAILAKLSIVPVRRG
YWGNKIGKPHTVPCKVTGRCGSALVHLIPVPRGTGIVSAPVPKLLMMAGIDDCCTSAWGCTATLGNFAKATFDA
ISKTYSYLTPDLWKETVFTKSPDQEFTDHLIKAHARVSVQRTQAPAVATT

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FIGURE 233

ATGTCTAAGTCAGAATCTCTTAAAGAGCCCGAACAGCTGCAGAACTCCTCACTGGAGGGTTGAGCATTGAAGCA
ACCAATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTCCTGAGAGATCCAAAC
ACTAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCCACAAATGCAAGG
CCACACAAGGTGGATGGAAGAGTTGTGGAACAAAGAGAGCTGTCTCAAGAGAAGATTCCCAAAGACCAGGTGCT
CACTTAACGTGTAAGAAAGTTTGGAAAAATGGAAGTGATTGAAATCATGACTGACCATGGCAGTGGCAAGAAAAAG
GACTTTGCCTTTGTAACCTTTGATGACCATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATATTGTGAAT
GGCCACAACGTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCTGA
ACAGGCTCCTTGATGCCTAAAGCCCAATGTCTGGCATTTCGAGCCCTCCATGACAGGTTCCAGCTTTCTCTGCAAG
GCCATGCTCCTCACGGCCTATGACTGCCTCCTGTTCTGCGCCTGTCAGGTCTTCCACCTCACCCCTCTTCTCAGC
CTATCCAAGCCCATTCAGTCTTCAGGCGAGCTCTAG

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FIGURE 234

MSKSESLKEPEQLQKLLTGGLSIEATNESLRSHFEQWGLTDCVVLDPNTKCSRGFGFVTYATVEEVDAATNAR
PHKVDGRVVETKRAVSREDSQRPGAHLTVKKFGKMEVIEIMTDHGSGKKRDFAFVTFDDHDSVDKTVIQKYHIVN
GHNCEVRKALSKQEMASASSQGRGTGSLMPKAQCLAFEPSMTGSQLSCKAMLLTAYDCLLFCACQVFHLTPLLS
LSKPIQSSGEL

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FIGURE 235

CGGTCCCGCACTGGTGCAGCCATGTCCTCTTCCCCGTGGGAGCCTGCGACCCTGCGCCGGGTGTTTCGTGGTGGGG
GTTGGCATGACCAAGTTTGTGAAGCCTGGAGCTGAGAATTCAAGAGACTACCCTGACTTGGCAGAAGAAGCAGGC
AAGAAGGCTTTAGCTGATGCACAGATCCCTTATTCAGCAGTGGACCAGGCATGTGTTGGCTATGTTTTTGGTGAC
TCTACCTGTGGGCAGAGGGCTATCTATCACAGTTTGGGAATGACTGGAATTCCTATAATCAATGTCAACAATAAC
TGTGCTACTGGTTCTACTGCTTTGTTTATGGCCCCGCCAGCTGATTGAGGGTGGTGTGGCAGAATGTGTCTTGGCT
CTTGGGTTTGAGAAGATGAGTAAGGGAAGCCTTGGGAATAAAATTTTTCAGATAGAACCATTCCCCTGATAAGCAT
GTTGACCTCCTGATCAATAAGTATGGATTGCTGCTCACCAGTTGCTCCTCAGATGTTTGGGTATGCTGGAAAA
GAACATATGGAAAAATATGGAAACAAAAATTGAACACTTTGCAAAAAATTGGATGGAAAAATCATAAACATTTCAGTT
AATAACCCGTATTCCCAGTTCCAAGATGAATACAGTTTAGATGAAGTGATGGCATCTAAAGAAGTTTTTGAATTT
TTGACTATCTTACAATGTTGTCCCCTTCAGATGGTGTGCTGCAGCAGCAATTTTGGCCAGTGAAGCATTGTACAG
AAGTATGGCCTGCAATCCAAAGCTGTGGAAATTTTGGCACAAGAAATGATGACTGATTTGCCAAGCTCGTTTGAA
GAAAAAGCATTATTAAAAATGGTTGGCTTTGATATGAGTAAAGAAGCTGCAAGAAAATGCTATGAGAAATCTGGC
CTGACACCAAATGATATTGACGTAATAGAATTTCACGATTGCTTTTCTACCAACGAACCTCTGACTTATGAAGCA
CTCGGACTCTGTCCAGAAAGGACAAGGTGCAACGCTGGTTGATAGAGGAGATAATACATATGGAGGAAAGTGGGTC
ATAAATCCTAGTGGTGGACTGATTTCAAAGGGACACCCACTAGGCGCTACAGGTCTTGCTCAGTGTGCAGAACTC
TGCTGGCAGCTGAGAGGGGAAGCCGGAAGAGGCAAGTTCTTGGTGCAAAGGTGGCTCTGCAGCATAATTTAGGC
ATTGGAGGAGCTGTGGTTGTAACACTCTACAAGATGGGTTTTCCGGAAGCCGCCAGTTCTTTTAGAACTCATCAA
ATTGAAGCTGTTCCAACCAGCTCTGCAAGTGATGGATTTAAGGCAAATCTTGTTTTTAAGGAGATTGAGAAGAAA
CTTGAAGAGGAAGGGGAACAGTTTGTGAAGAAAATCGGTGGTATTTTTGCCTTCAAGGTGAAAGATGGCCCTGGG
GGTAAAGAGGCCACCTGGGTGGTGGATGTGAAGAATGGCAAAGGATCAGTGCTTCCTAACTCAGATAAGAAGGCT
GACTGCACAATCACAATGGCTGACTCAGACTTCCTGGCTTTAATGACTGGTAAATGAATCCTCAGTCGGCCTTC
TTTCAAGGCAAATTGAAAATCACTGGCAACATGGGTCTCGCTATGAAGTTACAAAATCTTCAGCTTCAGCCAGGC
AACGCTAAGCTCTTGAAAGAACTCCCTTTGGCTACTTTTGAAAATCAAGATGAGATATATAGATATATATCCATACA
TTTTATTGTCAGAAATTTAGACTGAACTACACATTGGCAAATAGCGTGGATAGGATTTGTTTCTTAATGGGTGTG
ACCAATCCTGTTTTTCTTATGCTCTGGGTGAATAGAGCCTGATGGTATACTACTGCTTTGCGGAATTGCATACAA
CTGTGCATTACAAAGTTAATATGGTAATTATGGTCTGGGGTAAAATTGAGTTTCAGAATAAAAATTAGGAACAGTA
AAATCCAAAGAACTATGTAAACAAAAAAGCTTTTGTGTTTGCTTACAAAGTATATTTAAGGATTATTCTGCTGAAG
ATTGAGTTTAAGAGTTTTCTTGGGAGAACTAAGTAAGAAACACAATGCCAACAGCTGGCCAGTAATTAGTGTTG
TGCACCTCATGTCATTAATCAATTTCTCAATAGTTCTTAAAATTAGTGAGATTAAAAATCTAAAAATTTTGCATT
TCATGCTATCAGAAACAGTATTTTCTTCCCAATCAAAATAAAAGAAATATGATCAGAGCTTGAACACAGGCTTA
TTTTTAAAAATAAAAAATATTTTTAACATGGGTTTCCTTATTGAAAAATCAGTGTATTAGTCATAAAACACCATCAT
TAAGAATAATTGAACAATAAAGTTTGCTTTCAGATGCAGTTTTTCAAATTATAATCTCATTTCATTTTATAACGTT
CTCAGTCCTTTGTTATAATTTTCTTTTTCATGTAAGTTTAATTATCTGCATTTATCTTTTTTCTAGTTTTTCT
AATACTAATGTTATTTCTTAAATTCAGTGAGATATAGGATAAAATAATGCTTTGAGAAGAATGTTTAATAGAAA
ATTAAAAATAACTTTTTCTGGCA

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FIGURE 236

MSSSPWEPATLRRVFVVGVMKTFVKPGAENSRDYPDLAEEAGKKALADAQIPYSAVDQACVGYVFGDSTCGQRA
IYHSLGMTGIPIINVNNNCATGSTALFMARQLIQGGVAECVLALGF EKMSKSLGIKFSDRITPTDKHVDLLINK
YGLSAHPVAPQMFGYAGKEHMEKYGTKIEHFAKIGWKNHKHSVNNPYSQFQDEYSLDEV MASKEVFDFLTILQCC
PTSDGAAAAILASEAFVQKYGLQSKAVEILAQEMMTDLPSSFEEKSIIKMGVFDMSKEAARKCYEKSGLTPNDID
VIELHDCFSTNELLTYEALGLCPEGQGATLVDRGDNTYGGKWVINPSGGLISKGHPLGATGLAQCAELCWQLRGE
AGKRQVP GAKVALQHNLGIGGAVVVTLYKMGFPEAASSFRTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQ
FVKKIGGIFAFKVKDGP GGKEATWVVDVKNGKGSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGKLKI
TGNMGLAMKLQNLQLQPGNAKL

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FIGURE 237

GGCCCTGCGCGCGGCAACATGGCGGGGTCCAGGTGGAGGTCTTGAGGCTATCAGATCGGTATGGCATTGGCGTCC
GGGCCCAGCAAGGCGGGCGCTAGCTGGCTCCGGGCAGCTCGGCCTTGGGGGCTTCGGGGCCCCGAGACGCGGGGCG
TATGAGTGGGGCGTGCGCTCCACGCGGAAGTCGGAGCCTCCTCCCCTGGATAGGGTGTACGAGATCCCTGGACTG
GAGCCCATCACCTTTGCGGGGAAGATGCACTTCGTGCCCTGGCTGGCGCGGCCGATCTTTCCGCCCTGGGACCGC
GGCTACAAGGACCCAAGGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAGGCCTGCTAT
ATCTTTCACCACCGTTGCCGCTTCTCGAGGGTGTAAGCAGGCCCTCTGGCTCACCAAGACCAAGTTAATAGAA
GGCCTTCCCGAGAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCACATAGAGAACCAAGACGAGTGCGTTCTG
AATGTGATCTCTCACGCCCCGTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGCCCGGTCATC
GTGGACAACCTAATACAGCTGTGTAAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATCTGTGTCCAA
AACTCCACGTTTTCTGCTACCTGGAACCGAGAGTCTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGAGCCCCGACTG
AGCACTAAGGATCCTCTGCCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTTCTAGAGACC
TTCTACCCCATATCACCCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACAGGATTCCAG
GAAGGCTATCCTTACCCCTATCCCCATACCCTGTACTTACTGGACAAAGCCAATTTACGACCACACCGCCTTCAA
CCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGCTTTTGGCAGTGCCCTGGCTCAGGCCCCGGCTCCTCTATGGG
AATGATGCCAAGGTCTTGGAGCAGCCCGTGGTGGTGCAGAGCGTGGGCACGGATGGACGTGTCTTCCATTTCTTA
GTGTTTCAACTGAATACCACAGACCTGGACTGTAACGAGGGTGTCAAGAATTTGGCCTGGGTGGACTCAGACCAG
CTCCTCTATCAGCATTTTGGTGTCTCCAGTGATCAAAAAGAGAGTGGTTGTGGAACCTGTTGGGCCAGTTGGT
TTCAAGCCAGAGACATTCAGAAAGTTTTTAGCTCTATATTTGCATGGTGCTGCGTGCAGCGGAGGACCCCTCTGAA
TCCTGAAACCCCTCTTGCTCTCTTCCACGGAAGAGGGCCTGGGCCCCGTGGAGCCTCAGTGCCCGTTTGGCCTG
CTGCTCTCGCTGACAATAAAGAGCCCTTGCCTTGC

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FIGURE 238

MALASGPARRALAGSGQLGLGGFGAPRRGAYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIF
PPWDRGYKDPRFYRSPPLEHPLYKDQACYIFHHRCRLLEGVKQALWLTTKTKLIEGLPEKVLSLVDDPRNHIENQ
DECVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGS
GGARLSTKDPLPTIASREEIEATKNHVLETFYPISPIIDLHECNIYDVKNDTGFQEGYPYPYPHTLYLLDKANLR
PHRLQPDQLRAKMILFAFGSALAQARLLYGNDKVLQPVVVQSVGTDGRVHFHFLVFQLNTTDLDCNEGVKNLAW
VDSDQLLYQHFWCLPVIKKRVVVEPVGPVGFKPETFRKFLALYLHGAA

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FIGURE 239

CCGCGGCCGGGGCTGACGCTTTGACAGCTGGAAAGAGCGCGGAGCCAGCGCCTGGGGGGGAGGGAGGGGAGCGCG
GCGAGGAGAGCGCCAGCGAGCGAGAGAGCGAGCGAGCGCCGGGGAGGGGGCCGGGAGCGAGGGGCAGCTCGGGAG
AGCCGGAGCGGTAGCGGCGGGCGGGCGGGCGGCGAGGCTCGGCGCCCTCTTCCCTGCAAACATGTTTGCCA
AAGGCAAAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTCGGGAAAAGTTAGCTTTATACGTCTACGAATATTTAC
TGCACGTAGGAGCACAGAAATCTGCACAGACCTTCTTATCGGAGATTTCGATGGGAAAAAACATCACGTTGGGAG
AACCGCCTGGGTTTTTGCACCTCGTGGTGGTGTGTATTTTGGGACCTTTACTGTGCAGCTCCTGAAAGGAGAGACA
CTTGTGAACATTCAAGTGAAGCAAAAGCCTTTCATGATTATAGTGCAGCAGCTGCCCGAGCCCCGTGCTTGGCA
ACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCCCGCCAGGTTTCTTTCAGGGTCCTCCGGGGTCACAGC
CCTCGCCGCACGCACAGCCTCCACCTCACAATCCTAGCAGCATGATGGGACCCACAGTCAGCCTCCGGGAGGAG
TTCTGGGACACAGCCATTGCTGCCCAATTCTATGGATCCCACACGACAACAAGGCCACCCCAACATGGGAGGAT
CAATGCAGAGAATGAACCTCCCCGAGGCATGGGGCCCATGGGTCCCGGCCACAGAATTACGGCAGCGGCATGA
GACCACCACCAACTCCCTCGGCCCCGCCATGCCCGGGATTAACATGGGCCCGGGAGCTGGCAGACCCTGGCCCA
ATCCTAACAGTGCTAACTCAATTCCATACTCCTCCTCATCACCTGGTACCTATGTGGGACCCCTGGTGGTGGCG
GTCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCAACAAATTCAGTGACAACATCTACACAATGATTA
ATCCAGTGCCGCTGGAGGCAGCCGGTCCAATTCCCGATGGGTCCCGGCTCGGACGGTCCGATGGGCGGCATGG
GTGGCATGGAGCCACACCACATGAATGGATCATTAGGGTCAGGCGACATAGACGGACTTCCAAAAAATTCTCCTA
ACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGGAGGGAATTCTCCTACT
CCTTTCAGAACGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCTCCGAGACGCTGAGAGAG
CAGGCATTGCAGGCGGGAAGATGCCAGAAATTATGCAAGAAGTGAGGTGTCATTATCCAGGAGCTGGTGGGGAGG
GCATCTCCCTGCTCCCCTCAACCCCTCCACCCCATCCACGCCCTACCTTTCCCAATTTTAGTTTCATGCAA
TAAAAAGGCCAAACTTTTTATTCCATAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA ,

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FIGURE 240

MFAKGKGSAPVSDGQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAPE
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPNDGMFGGPIPPGFFQGPPGSQPSPHAQPPPHNPSMMGPHSQP
PGGVPGTQPLLNSMDPTRQQGHPNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPNLGPAMPGINMGPGAGR
PWPNPNSANSIPYSSSSPGTYVGPPGGGGPPGTPIMPSPADSTNSSDNIYTMINPVPPGGSRSNFPMPGSGDGPM
GGMGMEPHHMNGSLGSGDIDGLPKNSPNNISGISNPPGTPRDDGELGGNFLHSFQNDNYSPSMTMSV

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FIGURE 241

ATGTACGCCTTTGTGCGGTTCTTGAGGACAACGTCTGCTACGCGCTGCCCGTGTCGTGCGTGCGCGACTTCAGC
CCCCGCTCGCGGCTGGATTTTGACAACCAGAAGGTGTACGCCGTGTACCGGGCCCCGGAGGAATTGGGCGCCGGG
CCCGAGAGCCCCCGCGCGCCCCCGCGACTGGGGCGCGCTGTTGCTCCACAAGGCCCAGATCCTGGCGCTGGCA
GAAGACAAATCTGACCTTGAAAACAGTGTGATGCAGAAGAAAATAAAAATCCCCAAGCTTTCTCTTAATCATGTA
GAAGAAGATGGAGAGGTTAAAGATTATGGGGAAGAAGATTACAGCTTAGACACATCAAGGATTGTCTGGGGAAA
TATTGATCTGCAGTCCAAGAAAATCCCAGCTGCCCTTGCCCTGAACTGATTCTCGTTGTCTTACACAGAGACCTGA
GGGGCGGAAGCCGAGCGAAGTGGCGCACAGAGCATCGAGGCAGTGGTGGCTCGGCTAGAGAAGCAGAACGGCCT
GAGCCTGGGCCATAGCACGTGTCCGGAAGAGGTCTTCGTGGAGGCCTCGCCAGGCACAGAGGACATGGACAGTCT
AGAAGATGCTGTGGTGCCCCGGGCTCTGTATGAGGAGCTGCTGCGCAACTACCAGCAGCAACAGGAAGAGATGCG
CCACCTCCAGCAGGAGCTGGAGCGGACTCGGAGGCAGCTGGTACAACAGGCCAAGAAGCTCAAGGAGTACGGGGC
ACTTGTGCTGAAATGAAGGAGCTCCGTGACCTTAACCGGAGGCTCCAGGACGTGCTGCTCCTGAGGCTTGGCAG
CGGTCCCGCCATTGATCTGGAAAAAGTAAAGTCAGAATGTCTCGAGCCCGAGCCGGAGTTACGGAGCACTTTCAG
TGAGGAAGCAAATACGTCGTCCTATTACCCCGCTCCTGCGCCTGTCATGGACAAGTATATCCTAGACAATGGCAA
GGTCCATCTGGGAAGCGGGATTTGGGTTGATGAGGAGAAATGGCACCAGCTACAAGTAACCCAAGGAGATTCCAA
GTACACGAAGAACTTGGCAGTTATGATTTGGGGAACAGATGTTCTGAAAAACAGAAGCGTCACAGGCGTCGCCAC
AAAAAAAAAAGAAAGATGCAGTCCCTAAACCAACCCCTCTCGCCTCGCAAACCTAAGCATCGTCAGAGAGTGTGTA
TGACAGAATAGCACAAGAACTGTGGATGAAACTGAAATTGCACAGAGACTCTCAAAGTCAACAAGTACATCTG
TGAAAAAATCATGGATATCAATAAATCCTGTAAAAATGAAGAACGAAGGGAAGCAAAATACAATTTGCAATAAAC
TTTGATTTTTCAT

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FIGURE 242

MDSLEDAVVPRALYEELLRNYQQQQEEMRHLQQELERTRRQLVQQAKKLKEYGALVSEMKELRDLNRRLQDVLLL
RLGSGPAIDLEKVKSECLEPEPELRSTFSEEANTSSYYPPAPAPVMDKYILDNGKVHLGSGIWWDEEKWHQLQVTQ
GDSKYTKNLAVMIWGTDVLKNRSVTGVATKKKKDAVPKPPLSPRKLSIVRECLYDRIAQETVDETEIAQRLSKVN
KYICEKIMDINKSCKNEERREAKYNLQ

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FIGURE 243

CCTTTCGTTGCCTGATCGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTAC
CCTATCGACGCAGCTTCCCCACTTGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAACTGGCCA
AGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTGCACAAGTACGTTTTGTGA
CAGGCAATCTCTACCATTTAATTAAGAAAGCAGTTGCTGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGA
TGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATTCACCGTTTG

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FIGURE 244

CGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTACCCCTATCGACGCAGCTT
CCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACTCC
TTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTCACACAAGTACGTTTTGTGACAGGCAATAAAATTTT
AAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC
TGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATT
CACCGTTTGGCTCAATATTATAAGACCAAGCGAGTCCTCCCTCCCAGTTGGAAATATGAATCATCTACAGCCTCT
GCCCTGGTCGCATAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTAACTAAAATAAAACAAAAACAAAA
ACAAAAAAA

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FIGURE 245

AGAAGATGCTTCAAATTCAACCCGAGAAGGATATCATTGTAGAGTTTATCAAAAATGGAGATTTCAAGTATGTCC
GCATGCTGGGGGCACTTTACATGAGGCTGACAGGCACTGCAATTGATTGCTACAAGTACTTGGAACCTTTGTACA
ATGACTATCGAAAAATCAAGAGCCAGAACCGAAATGGGGAGTTTGAATTGATGCATGTTGATGAGTTTATTGATG
AACTATTGCACAGTGAGAGAGTCTGTGATATCATTCTGCCCCGACTACAGAAACGCTATGTATTAGAGGAAGCTG
AGCAACTGGAGCCTCGAGTTAGTGCTCTGGAAGAGGACATGGATGATGTGGAGTCCAGTGAAGAGGAAGAAGAGG
AGGATGAGAAGTTGGAAGAGTGCCATCACCTGATCACCGCCGGAGAAGCTACCGAGACTTGGACAAGCCCCGTC
GCTCTCCCACTGCGCTACAGGAGGAGTAGGAGCCGGTCTCCCGAAGGCGGAGTCGATCTCCCAAAGGAGAA
GCCCCCTCCCTCGCCGAGAAAGGCATCGGAGCAAGAGTCCAAGACGTCACCGCAGCAGGTCCCGAGATCGGCGGC
ACAGATCCCGTTCCAAGTCCCCAGGTATCACCGTAGTCACAGACACAGGAGCCACTCAAAGTCTCCCGAAAGGT
CTAAGAAGAGCCACAAGAAGAGCCGGAGAGGGAATGAGTAATGGACTCAGTTTGGTTTTAGTCCACATGGCCTCC
TGTGGATATAAGGATATCTGTATGTGGAAGGATTAAGATCTCCCCAGGCAGCTATAAGAATATTTTAGTTTTTT
TCTTATCAAGTTTCTCAACCTTTATTTTTAATGAAGGAGGTGCTGAGTTTTGTATCTTTTTAATCATAATCAACA
TCAGTTTTTGACCCAACTAACCTTGACTGTATTCAAACCTATGAGAGTATAAAGGATCTGGAGGTTGGGGATATG
ACTGACAAGGAAAGGCTGTGGCCACCTGATGACCCTTTCCCTTTTTATTAAACCGGACACACCTGTTTTCCCATTT
CGCTGTAGTTTAGTTTTTGGTTTTGTTGTGGTTGGAAGTCTTTGAGAATCCTGGGATTTGTGCTGCTGCTGTTAT
TCAAAGATCAAAGGAGTAAACATAGTTGCTCCTAACTTTTTTCCAGCAGCAGCAAGTGGTAATAAACATGAAAA
CTGGTTTGTAGCAGTTTTGAAAGAATAGAATGCATTCAAATGTAAGGCTGCTTCTGGATCATTAAAGCCAGTTTC
ATCAAAACAGTTCAACAGAGAGCAGCACTTAATACCCCTTTATACAGCCCATTTTTTCATAGTTTCATTTGTTCTTG
CCCACAAGCTTGAAATCCAGGTTAAGGTATCCAGCCTTTATCATATAAGCATTGACATTATCCAGGCCTAGTCAG
TAGCAGTAGGGTAACGGGATTGAAAAAGATTTGATGGAGAGGAAAGTATCTAATATTAGTCATGGTTTTGACCTA
AATTGCTAGACAGTCGTGCCATTACAAAGTCAGAAAATACAGCAGGAAGAGACAGCTTTTAGAGGGGCAGAGAA
TTAGAGGATGGTGGTAGTAATGAAAAAGATGCATTGAGTTTAACAAGTTTAATTTGAGACAGCTATGGTATAGCT
AAAAACAAAAGCCCATAAAGTTGGAGATAGGGACCAGAGTTTAACATAGCGATCTAGGCCAGAATTGACAATGTT
TAAGTAATGGTGAATCTGTCAATAAGACTTCCCAGAGTGTTAATATATATCAGAAATGCACACAACAGAACCAT
AGGCAACACCAACACAGGAAGAAATAGAAGTCACCTATTGAAAACCTGGAATGGCCCATTCAGAAAGACAGGAGAA
TTAGGAGAGAGTGAGTGAAAGAAGCCAAGGGTCAAGAATGCAGAAGCAAAGGAAGGACTAAAAAGCCTCCACGGA
CATCGATAATCAAGAGATTATTAAGATCTTTGCTAGAAGAGTTCCTTTACCTGTACTTAACTCCCTTAAAAAGAG
AAAAGTGATGGAATGACTTCTGCAACTGTAGTCCCAGCAGGAACTGTGAAGACCAGCTGCCCTGCAGGATCCAGT
TTTTCTTGGGAGGTTGTATCTGGTCATAAGGTAAACATTCTATATATTCTATGCCTGCTCTAGAATTGAAAGACT
TCAGCAGTATTAAAGCATTTTTTAATCTT

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FIGURE 246

MLQIQPEKDIIVEFIKNGDFKYVRMLGALYMRLTGTAIDCYKYLEPLYNDYRKIKSQNRNGEFELMHVDEFIDEL
LHSERVCDIILPRLQKRYVLEEAEQLEPRVSALEEDMDDVESSEEEEEDEKLERVSPDHRRRSYRDLDKPRRS
PTLRYRRSRSRSPRRRSRSPKRRSPSPRRERHRSKSPRRHRSRSDRRHRSRSKSPGHHRSHRHRSHSKSPERSK
KSHKKSRRGNE

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FIGURE 247

GTTCGGGCCAGATGCGCTCCATCATGGAAGGGCCGCTGAGCAAATGGACTAACGTGATGAAGGGCTGGCAGTACC
GTTGGTTTCGTGCTGGACTACAATGCAGGACTGCTCTCCTACTACACGTCCAAGGACAAAATGATGAGAGGCTCTC
GCAGAGGATGTGTTAGACTCAGAGGAGCTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTG
TTGATCAGAAAACCTTCCATTTCCAGGCCCGTGATGCTGATGAGCGAGAGAAGTGGATCCATGCCCTTAGAAGAAA
CAATTCTTCGACATACTCTCCAGCTTCAAGGTTTGGATTTCAGGATTTGTTTCTAGTGTCCAAGATTTTGATAAGA
AATTACAGAAGCTGATGCTTACCTACAAATCTTGATTGAACAATTAAAGCTTTTTTGATGACAAGCTTCAAACT
GCAAAGAAGATGAACAGAGAAAAGAAAATTGAAACTCTCAAAGAGACAACAAATAGCATGGTAGAATCAATTAAAC
ACTGCATTGTGTTGCTGCAGATTGCCAAAGACCAGAGTAATGCGGAGAAGCACGCAGATGGAATGATAAGTACTA
TTAATCCCGTAGATGCAATATATCAACCTAGTCCCTTGGAACTGTGATCAGCACAATGCCCTTCCAGACTGTGT
TACCTCCAGAACCTGTTTCAGTTGTGTAAGTCAGAGCAGCGTCCATCTTCCCTACCAGTTGGACCTGTGTTGGCTA
CCTTGGGACATCATCAGACTCCTACACCAAATAGTACAGGCAGTGGCCATTACCACCGAGTAGCAGTCTCACTT
CTCCAAGCCACGTGAACCTGTCTCCAAATACAGTCCCAGAGTTCTTCTTACTCCAGCAGTGAAGATGAATTTTATG
ATGCTGATGAATTCATCAAAGTGGCTCATCCCCAAAGCGCTTAATAGATTCTTCTGGATCTGCCTCAGTCTTGA
CACACAGCAGCTCGGGAAATAGTCTAAAACGCCCAGATACCACAGAATCACTTAATTCTTCTTGTCCAATGGAA
CAAGTGATGCTGACCTGTTTGATTACATGATGACAGAGATGATGATGCGGAGGCAGGGTCTGTGGAGGAGCACA
AGAGCGTTATCATGCATCTCTTGTGCGAGGTTAGACTTGGAAATGGATCTTACTAAGGTAGTTCTTCCAACGTTTA
TTCTTGAAAGAAGATCTCTTTTAGAAATGTATGCAGACTTTTTTGCACATCCGGACCTGTTTGTGAGCATTAGTG
ACCAGAAGGATCCCAAGGATCGAATGGTTCAGGTTGTGAAATGGTACCTCTCAGCCTTTCATGCGGGAAGGAAAG
GATCAGTTGCCAAAAAGCCATACAATCCCATTTTGGGCGAGATTTTTTCAGTGTCAATTGGACATTACCAAATGATA
CTGAAGAGAACACAGAACTAGTTTCAGAAGGACCAGTTCCCTGGGTTTCCAAAAACAGTGTAACATTTGTGGCTG
AGCAGGTTTCCCATCATCCACCCATTTTCAGCCTTTTATGCTGAGTGTTTTTAACAAGAAGATACAATTCAATGCTC
ATATCTGGACCAAATCAAATTCCTTGGGATGTCAATTGGGGTGCACAACATAGGGCAGGGCTGTGTCTCATGTC
TAGACTATGATGAACATTACATTCTCACATTCCCCAATGGCTATGGAAGGTCTATCCTCACAGTGCCCTGGGIGG
AATTAGGAGGAGAATGCAATATTAATTGTTCCAAAACAGGCTATAGTGCAAATATCATCTTCCACACTAAACCTT
TCTATGGGGGCAAGAAGCACAGAATTACTGCCGAGATTTTTTCTCCAAATGACAAGAAGTCTTTTTGCTCAATTG
AAGGGGAATGGAATGGTGTGATGTATGCAAATATGCAACAGGGGAAAATACAGTCTTTGTAGATACCAAGAAGT
TGCCTATAATCAAGAAGAAAGTGAGGAAGTTGGAAGATCAGAACGAGTATGAATCCCGCAGCCTTTGGAAGGATG
TCACTTTCAACTTAAAAATCAGAGACATTGATGCAGCAACTGAAGCAAAGCACAGGCTTGAAGAAAGACAAAGAG
CAGAAGCCCGAGAAAAGGAAGGAGAAGGAAATTTCAGTGGGAGACAAGGTTATTTTCATGAAGATGGAGAATGCTGGG
TTTATGATGAACCATTACTGAAACGTCTTGGTGCTGCCAAGCATTAGGTTGGAAGATGCAAAGTTTATACCTGAT
GATCAGGGCAGTAGGCATAATTTCAGCAACAACAATCTTCTTTGGGAGAAACCTGTTCAATCCAATCTTCTAAT
TACAGTGGTTCTTATCTCAGGGATACTGGACTTTCTGACGCAGATGAACAATTAAGGGGAAAAGCTTCCCTTTTC
CCTCTGTGGCAGTTACGATTTTGACTTCAGTCTGAGAAAACTTCAGGTTTGAAGATCAGATGATGTCTTCTC
CTTTTCCAAACACCACACGTTGAAAGCATTTATAAATCCAAGTCTGAAACTCTGCGCTCTAGTACTGCTGTAAAG
ATACACAACCTGTTTCTTAGTTCATATAATCTCGGGATACACACACACACACATATATATACACACACATACG
TATACACACACATACATATATATAAATATACCTGATGCCAGATTTTTTTCATAAATATTCTGCCTACTGTAAATA
TGGGTTCTCTGAGTTGTTTTAGAAAATTAGCGCAATGTATTAAATCAAGTGTTAGGAAATTTTCATGGTCTTAC
CTACAATAACTTTTATTTTGAATTGAACTATTATTAATTTGTATCTAATCCTGGATTACAGTTTAATTAATTAT
TCTTAGTGCTTAAGGCTTCATAAAGTAATTTTTTCCAACCTTTTTTTTAAAAA

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FIGURE 248

MASIMEGPLSKWTNVMKGWQYRWFVLDYNAGLLSYTTSKDKMMRGSRRGCVRLRGAVIGIDDEDDSTFTITVDQK
TFHFQARDADEREKWIHALEETILRHTLQLQGLDSGFVPSVQDFDKKLTADAYLQILIEQLKLFDDKLQNCCKED
EQRKKIETLKETTNMVESIKHCIVLLQIAKDQNAEKHADGMISTINPVDAIYQPSPLEPVI STMP SQTVLPPE
PVQLCKSEQRPSLPVGPVLATLGHHQTPTPNSTGSGHSPSSSLTSPSHVNLSPNTVPEFSYSSSEDEFYDADE
FHQSGSSPKRLIDSSGSASVLTHSSSGNSLKRPDTTESLNSSLNNGTSDADLFDSHDDRDDDAEAGSVEEHKSVI
MHLLSQVRLGMDLT KVVLPTFILERRSLEMYADFFAHPDLFVSISDQKDPKDRMVQVVKWYLSAFHAGRKGSVA
KKPYNPILGEIFQCHWTL PNDTEENTELVSEGPVPWVSKNSVT FVAEQVSHHPPISAFYAECFNKKIQFNAHIWT
KSKFLGMSIGVHNIGQGCVSCLDYDEHYILTFPNGYGRSILTPWVELGGECNINCSKTGYSANII FHTKPFYGG
KKHRITAEIFSPNDKKSFC SIEGEWNGVMYAKYATGENTVFVDTKKLPIIKKKVRKLEDQNEYESRSLWKDVTFN
LKIRDIDAATEAKHRLEERQRAEAREERKEKEIQWETRLFHEDGECWVYDEPLLKRLGAAKH

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FIGURE 249A

CCCGGGCTGTGGGCTACAGGCGCAGAGCGGGCCAGGCGCGGAGCTGGCGGCAGTGACAGGAGGCGCGAACCCGCA
GCGCTTACCGCGCGGCGCCGCACCATGGAGCCCGCCGTGTGCTGGCCGTGTGCGCGCTGCTCTTCCTGCTGTGG
GTGCGCCTGAAGGGGCTGGAGTTCTGTGCTCATCCACCAGCGCTGGGTGTTTCGTGTGCCTCTTCCTCCTGCCGCTC
TCGCTTATCTTCGATATCTACTACTACGTGCGCGCCTGGGTGGTGTTCAGCTCAGCAGCGCTCCGCGCCTGCAC
GAGCAGCGCTGCGGGACATCCAGAAGCAGGTGCGGGAATGGAAGGAGCAGGGTAGCAAGACCTTCATGTGCACG
GGGCGCCCTGGCTGGCTCACTGTCTCACTACGTGTCGGGAAGTACAAGAAGACACACAAAACATCATGATCAAC
CTGATGGACATTCTGGAAGTGGACACCAAGAAACAGATTGTCCGTGTGGAGCCCTTGGTGACCATGGGCCAGGTG
ACTGCCCTGCTGACCTCCATTGGCTGGACTCTCCCCGTGTTGCCTGAGCTTGATGACCTCACAGTGGGGGGCTTG
ATCATGGGCACAGGCATCGAGTCATCATCCACAAGTACGGCCTGTTCCAACACATCTGCACTGCTTACGAGCTG
GTCCTGGCTGATGGCAGCTTTGTGCGATGCACTCCGTCCGAAAACCTCAGACCTGTTCTATGCCGTACCCTGGTCC
TGTGGGACGCTGGGTTTCCTGGTGGCCGCTGAGATCCGCATCATCCCTGCCAAGAAGTACGTCAAGCTGCGTTTT
GAGCCAGTGCGGGGCTGGAGGCTATCTGTGCCAAGTTACCCACGAGTCCAGCGGCAGGAGAACCACTTCGTG
GAAGGGCTGCTCTACTCCCTGGATGAGGCTGTCAATTATGACAGGGGTGATGACAGATGAGGCAGAGCCAGCAAG
CTGAATAGCATTGGCAATTACTACAAGCCGTGGTTCTTTAAGCATGTGGAGAACTATCTGAAGACAAACCGAGAG
GGCCTGGAGTACATTCCCTTGAGACACTACTACCACCGCCACACGCGCAGCATCTTCTGGGAGCTCCAGGACATT
ATCCCTTTGGCAACAACCCCATCTTCCGCTACCTCTTTGGCTGGATGGTGCTCCCAAGATCTCCCTCCTGAAG
CTGACCCAGGGTGAGACCCTGCGCAAGCTGTACGAGCAGCACCACGTGGTGCAAGGACATGCTGGTGCCCATGAAG
TGCTGCGCAGGCCCTGCACACCTTCCAAAACGACATCCACGTCTACCCCATCTGGCTGTGTCCGTTTCATCCTG
CCCAGCCAGCCAGGCCTAGTGACCCCCAAAGGAAATGAGGCAGAGCTCTACATCGACATTGGAGCATATGGGGAG
CCGCGTGTGAAACACTTTGAAGCCAGGTCTGTCATGAGGCAGCTGGAGAAAGTTGTCCGCAGCGTGCATGGCTTC
CAGATGCTGTATGCCGACTGCTACATGAACCGGGAGGAGTTCTGGGAGATGTTTGATGGCTCCTTGTAACACAAG
CTGCGAGAGAAGCTGGGTTGCCAGGACGCCTTCCCCGAGGTGTACGACAAGATCTGCAAGGCCGCCAGGCACTGA
GCTGGAGCCCCGCTGGAGAGACAGACACGTGTGAGTGGTCAGGCATCTTCCCTTCACTCAAGCTTGGCTGCTTTC
CTAGATCCACACTTTCAAAGAGAAACCCCTCCAGAATCCCACCCTGACAGCCCAACACCACCTTCCTCCTGGCT
TCCAGGGGGCAGCCCAGTGGAATGGAAGAATGTGGGATTGGAGTCAGACAAGCCTGAGTCCAGTTCCCCGTTT
AGAACTCATTAGCTGTGTGACTCTGGGTGAGTCCCTTAACCCCTCTGAGCCCGGGTCTCTTCATTAGTTGAAAGG
GATAGTAATACCTACTTGCAGGTTGTTGTCTATCTGAGTTGAGCACTGGTCACATTGAAGGTGCTGGGTAAGTGGT
AGCTCTTGTGCTTCCCGTTCCAGCGTCACATCTGCAGTGGAGCCTGAAAAGGCTCCACATTAGGTACCTGTGCA
CAGCCATGGCTGGAATGATGAAGGGGATACGCTGGAGTTGCCCTGCCATCGCCTCCATCAGCCAGACGAGGTCTT
CACAGGAGAAGGACAGCTCTTCCCCACCCTGGGATCTCAGGAGGGCAGCCACGGAGTGGGGAGGCCCCAGATGCG
CTGTGCCAAAGCCAGGTCCGAGGCCAAAGTTCTCCCTGCCATCCTTGGTGCCGTCTGCCCTTCTCCTTCATG
CCTGGGCCTGCAGGCCACCCAGCCACCCTGAGTCCACTCGGAGTGCCCTGTGTTCTTGAGAAAGGCATTCCA
GGGTTGAATCTTGTCCAGCCTCAGCCTGGGACACCTAGGTGGAGAGAGTGGTCTCCGCTCTGAATTGGATCCAG
GGGACCTGGGCTCATTCTTCTTGGCTCACCAACCCTGCAGGCCTCATCTTCCCAAAACCCACTTTGTCTTGGTG
GGAGTGGGTCCGCGCTGCTCTGCAGCAGGGGCTGGGGAGTGACAGCATCAGGTGGGAAAGTGGAGTCCACCCTC
ATGTTTCTGTAGGATTCTACCGTGGGGCTGGAAGAAAAGAGCATCGACTTGATTCTCCAACCACTCATCCCTC
TTTTCTTTCTTCCACCACTCCCCACCCAGCTGTAGTTAATTCAGTGCCCTACAAATCCTAAGCTCAGAGAAA
GTTCCATTTCGGTTCCAGAGGGAAGGGAACCTCCCTAGGTCCCTCCCTGGCTTGTATAACGCAAAGCTTGGTTG
TTATGCAACTCTATCTTAAGAACTGCCAGCCTCAGCTGAAAACCCGAATCTGAGAAGGAATTGCGTCATGTAA
GGGAAGCTGGAATTAAGGGAGCTGAGCCAGTCATGGTTGTGGCGTGTGAGTCAGGAGACCTAGGTTTCAGCCCT
CTCTACTGTGAGCGAGCTGTGCAACGTGGGCAAGTCATTGTCTCTGAGCTGCAGTTTCTCATCTGTACATCG
CTACAGACAAGACCTCCCTGGAACCCCTTCTGATTGTCTTAGACACTGTGGTTGCAAAACCCACGGAAAGCCTCAT
TTGTGTGGAAAGTCAGAGGAAAAATGATCCAGTGGACACTTGGGGATTATCTGTCTATTCAAGATCCTTCCTTCAA
CCCCAAGGTGAGTCCCATCTCATTTCCAGAAAGGCTCATACCTGGCTTGCAAGGAAGCATCTGTCTTGTCTATT
CAGGTGCCAGAACTCTCAGAGTCATTGAAGGGTGTTCACCCATCCCACCAAGGCTTGGCACACTGCCAGTGT
CTTAGCAGGGTCTTGTGAGGGCTGGGGGCATCCAGGCACTCAGAAGGCAAAGGAACCCCTACCCATTTGGCCT
CTGGAGGGGGCAGAAGAAAGAAATAAACCTCATCTATATTTTACAAAGCATGTGAATCTGGCATTAGCTCTCA
TAGGAGACCCATGTGCTTCCTTGCTCAGTGCAAAACTGATGATTCTACTTGCTGTAGATGAATGGTTAACACGAG

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FIGURE 249B

CTAGTTAAACAGTGCCATTGTTTTGCCAGTGAAGCCTCCAACCCTAAGCCACTGGGACGGTGGCCAGAGATGCCA
GCAGCCTCTGTGCGCCCTTAGTCATATAACCAAAATCCAGACCTTATCCACAACCCGGGGCTTGAAAGGAAGGTA
TTTTGGAATCACACCCTCCGGTTATGTTGCTCCAGTAAAATCTTGCCTGGAAAGAGGCAGTCTTCTTAGCATGGT
GAGCTGAGTTCATGGCTTTTTTTTTGTAGCCAGTCCTGTCCCTGGCCATCCATGTGATGGTTTTGGATGGAGTTAA
ACTTGATGCCAGTGGGCAGTGCATGTGGAAAGTATCAGAGTAAGGCTCTCCCTCCAGAGCCCTGAGTTTCTTGG
CTGCATGAAGGTTTTCTTTAGAATCAGAATTGTAGCCAGTTTCTTTGGCCAGAAGGATGAATACTTGGATATTAC
TGAAAGGGAGGGGTGGAGATGGGTGTGGCAGTGTATGGTGTGTGATTTTTATTTTCTTCTTTGGTCATGGGGGCC
AAGGAGAAAGGCATGAATCTTCCCTGTCAGGCTCTTACAGCCACAGGCACTGTGTCTACTGTCTGGAAGACATGT
CCCCATGGCTGTGGGGCCGCTGCTTCTGTTTAAATAAAAGTGGCCTGG

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FIGURE 250

GACATCATGGGCTATTTTTAGGGGTTGACTGGTAGCAGATAAGTGTGAGCTCGGGCTGGATAAGGGCTCAGAGT
TGCACTGAGTGTGGCTGAAGCAGCGAGGCGGGAGTGGAGGTGCGCGGAGTCAGGCAGACAGACAGACACAGCCAG
CCAGCCAGGTGCGCAGTATAGTCCGAAC TGCAAATCTTATTTTTCTTTTACCTTCTCTCTAACTGCCAGAGCTA
GCGCCTGTGGCTCCCGGGCTGGTGTTCGGGAGTGTCCAGAGAGCCTGGTCTCCAGCCGCCCCGGGAGGAGAGC
CCTGCTGCCCAGGCGCTGTTGACAGCGGCGGAAAGCAGCGGTACCCACGCGCCCCGGCGGGGAAGTCGGCGAGCG
GCTGCAGCAGCAAAGAACTTTCCCGGCTGGGAGGACCGGAGACAAGTGGCAGAGTCCCGGAGCCAAC TTTTGCAA
GCCTTTCTGCGTCTTAGGCTTCTCCACGGCGGTAAAGACCAGAAGGCGGCGGAGAGCCACGCAAGAGAAGAAGG
ACGTGCGCTCAGCTTCGCTCGCACCGGTTGTTGAACTTGGGCGAGCGCGAGCCGCGGCTGCCGGGCGCCCCCTCC
CCCTAGCAGCGGAGGAGGGGACAAGTCGTGCGAGTCCGGGCGGCCAAGACCCGCGCGCGGCCGCGCCACTGCAGGG
TCCGCACTGATCCGCTCCGCGGGGAGAGCCGCTGCTCTGGGAAGTGAGTTGCGCTGCGGACTCCGAGGAACCGCT
GCGCACGAAGAGCGCTCAGTGAGTGACCGCGACTTTTCAAAGCCGGGTAGCGCGCGGAGTCGACAAGTAAGAGT
GCGGGAGGCATCTTAATTAACCCTGCGCTCCCTGGAGCGAGCTGGTGAGGAGGGCGCAGCGGGGACGACAGCCAG
CGGGTGCGTGCGCTCTTAGAGAACTTTCCCTGTCAAAGGCTCCGGGGGGCGCGGGTGTCCCCGCTTGCCACAG
CCCTGTTGCGGCCCCGAACTTGTGCGCGCAGCCCCAACTAACCTCACGTGAAGTGACGGACTGTTCTATGACTG
CAAAGATGGAAACGACCTTCTATGACGATGCCCTCAACGCCTCGTTTCTCCGTCGAGAGCGGACCTTATGGCT
ACAGTAACCCCAAGATCCTGAAACAGAGCATGACCCTGAACCTGGCCGACCCAGTGGGGAGCCTGAAGCCGCACC
TCCGCGCCAAGAAGCTCGGACCTCCTCACCTCGCCCGACGTGGGGCTGCTCAAGCTGGCGTCGCCCCGAGCTGGAGC
GCCTGATAATCCAGTCCAGCAACGGGCACATCACCACCACGCCGACCCCCACCCAGTTCTGTGCCCCAAGAACG
TGACAGATGAGCAGGAGGGGCTTCGCCGAGGGCTTCGTGCGCGCCCTGGCCGAAGTGCACAGCCAGAACACGCTGC
CCAGCGTCACGTGCGCGGCGCAGCCGGTCAACGGGGCAGGCATGGTGGCTCCCGCGGTAGCCTCGGTGGCAGGGG
GCAGCGGCAGCGGCGGCTTCAGCGCCAGCCTGCACAGCGAGCGCGCGGTCTACGCAAACCTCAGCAACTTCAACC
CAGGCGCGCTGAGCAGCGGCGGCGGGGCGCCCTCTACGGCGCGGCGCGGCTGGCCTTTCCCGCGCAACCCAGC
AGCAGCAGCAGCCGCGCACCACCTGCCCCAGCAGATGCCCGTGCAGCACCCGCGGCTGCAGGCCCTGAAGGAGG
AGCCTCAGACAGTGCCCGAGATGCCCGGCGAGACACCGCCCTGTCCCCATCGACATGGAGTCCAGGAGCGGA
TCAAGGCGGAGAGGAAGCGCATGAGGAACCGCATCGCTGCCTCCAAGTGCCGAAAAAGGAAGCTGGAGAGAATCG
CCCGGCTGGAGGAAAAAGTGAAAACCTTGAAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGG
AACAGGTGGCACAGCTTAAACAGAAAGTCATGAACCACGTTAACAGTGGGTGCCAACTCATGCTAACGCAGCAGT
TGCAAACATTTTGAAGAGAGACCGTCGGGGGCTGAGGGGCAACGAAGAAAAAATAACACAGAGAGACAGACTT
GAGAACTTGACAAGTTGCGACGGAGAGAAAAAGAGTGTCCGAGAACTAAAGCCAAGGGTATCCAAGTTGGACT
GGGTTGCGTCTGACGGCGCCCCAGTGTGCACGAGTGGGAAGGACTTGGCGCGCCCTCCCTTGCGTGGAGCCA
GGGAGCGGCGCCTGCGGGCTGCCCGCTTTGCGGACGGGCTGTCCCGCGCGAACGGAACGTTGGACTTTTCGT
TAACATTGACCAAGAACTGCATGGACCTAACATTGATCTCATTAGTATTAAAGGGGGAGGGGGAGGGGGTTA
CAAACCTGCAATAGAGACTGTAGATTGCTTCTGTAGTACTCCTTAAGAACACAAAGCGGGGGAGGGTTGGGGAGG
GGCGGCAGGAGGGAGGTTTGTGAGAGCGAGGCTGAGCCTACAGATGAACCTTTCTGGCCTGCCTTCGTTAACTG
TGTATGTACATATATATATATTTTTTAATTTGATGAAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAG
TTATTTCTTGTTTGTGTTTGGGTATCCTGCCAGTGTGTTTGTAAATAAGAGATTTGGAGCACTCTGAGTTT
ACCATTTGTAATAAAGTATATAATTTTTTATGTTTTGTTTCTGAAAATTCCAGAAAGGATATTTAAGAAAATAC
AATAAACTATTGGAAAGTACTCCCTAACCTCTTTTCTGCATCATCTGTAGATACTAGCTATCTAGGTGGAGTTG
AAAGAGTTAAGAATGTCGATTAAAATCACTCTCAGTGCTTCTTACTATTAAGCAGTAAAACTGTTCTCTATTAG
ACTTTAGAAATAAATGTACCTGATGTACCTGATGCTATGGTCAGGTTATACTCCTCCTCCCCAGCTATCTATAT
GGAATTGCTTACCAAGGATAGTGCGATGTTTCAGGAGGCTGGAGGAAGGGGGTTCAGTGGAGAGGGACAGCC
CACTGAGAAGTCAAACATTTCAAAGTTTGATTGTATCAAGTGGCATGTGCTGTGACCATTTATAATGTTAGTAG
AAATTTTACAATAGGTGCTTATTTCAAAGCAGGAATTGGTGGCAGATTTTACAAAAGATGTATCCTTCCAATTT
GGAATCTTCTCTTTGACAATTCCTAGATAAAAAGATGGCCTTGGCTTATGAATATTTATAACAGCATTCTTGTC
CAATAAATGTATTCAAATACC

FIGURE 251A

[illegible]

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FIGURE 251B

CCATTGTTAACTCACAGGCCTCATAAAACATAGGCTGTTGGCTATTATTCTCCAACCCTTGATCTAGAGAATTTT
AAACATTAGAATTTTGTTTTACATTGTTAAGCTTTACGTCATCTTCAAATGACACCAAAACTCAGAATTATGAT
CTGCATTTAAGCCAATTTTAAAAATAAAATAAGCAGTCAATGCTGCCTCATTTATTGAAATTCAGTAGATTTTAGT
TTATTTCTTAGTAGTCAGAGAATTGATTTATAGCTATTACCAAACATTCTTACTAACGTTTCCTTATATCTAAA
TCAGATTGATTCTATATTTTGCTTTGTTTGTAAATCAATAGCCAATGAAGAATAAGGAGTATTGGAAGAAGCAGTG
AGTCAGCTTTAGGTGACCTGGTTCCTGTCTCAACTTTGTGATTTGGGGAGATACAGTTTACTTTCCCTGAGCCTT
AATTCCTGTGTAAGTCTAACTTAACTTCTTAATGTCCTTCCAGAACTAAAATTTTATTGTTTCATTCTAAT
CGTTGGACTACTCTTGTGAAGTTTATATTTTGAGTTAATACAGTTTCCAAATTAACATACATTTAAAAAAAAG
GGTAGTATTTTCCATTTCTCTGTGTGCACTTAGGATAAACAGTGAAGTATAGCTTATAAAACAATTAGTTTGAG
GGCTGAGAGTGTAAGAGGAACTATACCAAAAGTCAGGAAACCTGAGCTCTTACCCTAACTCTGTTACCAACTTTG
CTGTGTGACCTTAATCAAAACACATAACCTGGACCCCATGCTCCTCACCAGTAAATCAAGGGCCTGAATTTTATG
GCTTAGTATTTCCCTTCCAAGCTCCGAAGTTGCGTGATTCTGTGAAAGGCAGTGATTGATTCCCTTGTACTCATCT
TCCTTTTGACCTGTTTCCCTCATGATATATTGGGGAACAAATACTAAAAAGTGTTTTATACTAGCTTTCTTGATTG
ACATTTCCCTATAATACTGATGAATTTGGGTGATGGAAAGTAATGGAAATTGTTAAAAGTTCTGCTCTCAAATCT
GAGTCTCCTTGCCCTGTGTGCCAATGTTTAAACCATATTTGCTAATCTAAGCCATATTGCGAGGATCTCAAGGATG
ATACTTGTCAAGAGTTTGGGGCCTTGAGAGCACAGTTTTCAAATAATACTTAGTATTTTCTGACTATAGAGTAC
ATTTGTCTTGTAAAGTATATTTTAAATACAGAGAAGTGTGAAGTACAAATATCTCAGTGCTACTATTTAAAAAA
ACACAATTAGTATATAAATCCTTCCCATTTTTTTTGACAGTATAATTTTAGTATGTTAAACTTGGTTACTTCTTT
CTCTCTTCCCTCCATCATTTTCCCTGCTTCTTTTTCTTTTGTTCATATTCTTAAACAATTTTGCAACCACAGGTA
CCCACATTGCTGGCACTACCAGCCTTGGGCTACTACCGAGGATAATGGAGCCAGGGCCTTGTAAGCACAGAGG
AAGTCTAGAAGTGAAGGGGCTATGATACAGGAAGTTCAGGAGGCAGAGTCTCAAAGGAACACCTGCCTTTAATA
ATGTTTACAGAAGTGAAGAAAGGACTAAAGGACTTAAAGACATGCAGGTGTCTTCATCCTGATTCTGTCTTTGTT
ATTGCACAATGACTA'AAAAATAATGACCTAATTTTTTTTTTTTTTCTGGCTTGGCTAATGGAAATCGACACTAGCG
CTTCCCCAGTATTAGACTTAATCTAATTCCAAAGTAACATTCAAGAAAAGAAAAACCAGTGGAACAGGATCAGTA
AGCTCAGACTCTCCATCTCCATTATTTTAGCCTTGACCATTCTTCTCTAATCCTTTTAAATTATCTTCAGTTTCC
AGTTCAAGTTACATTGCTTCAGTTACAGTTTGTGTGACCCTGTATTTCAGAGCTGCATTATGATTCTTGTGGGCC
TAGATAGTTTTGCCATCTTAGACCCCTTCTTCCATACAAAATTAAAGTGATATTTTACAATTGTATCTGTATGA
AATGAATGTATTAATATTTTAGATTAAAACATTTTGTGTAGAAGTTTCAGTTTTTTCTTATGAGGCTAAAAAAAT
TAAAACATTTTTGTGGGCTTCTAAAAAACTGTGGGCCTTAGGTACTGTGCCTAATGGATAAGTTGGCATTGCCTG
TATTCTGAAGGGCATCATTGGAAAAATAGCAGTCATTATTCTGTCCCCTTCTCCCACCACCACAGTCCTTGGA
AGCCTTTGCCACTCCATCCAGGAGCACTGCAGTTTCCACGGTTATAGATCTATAGACTTGAACCTTACTTCTTCC
CAACCTAACGAAAACCTACAAGGATTACTTGGGACCATTCTCCTCAAAAAGATAGGAGGCAGTGGTTGTTTT
AGTCTTCAGATATTTTTGTTTTGTGTCAGTCCCTAATCTGTAGTTTTGAACTCGTGCCACACTTGAAAGGGAAAC
ATCCTACTACCTTTCTTTCTCTCCATTCCCACAAACCCTTCTCTTCATCATCACTCCCTGCATTCTTACTTCT
CAGCATATAAATACAAGACCCTTCTTTCTATTATTTGTTGAAAGCTAGGCCTGTAAAATAGAGATGGACAGACCA
TGCATGTTTTCCATGAAGCTATTTAATGCTGCTCCCAGTCTTCTGTCCATACCATTCTTCCCTGCCCTAGGAGT
GGGGTTGAGGTCTGTGACATGCAGACTGTAAGCACAGTCAGAACCCTCTGCAGCTCTCAACCAACAGAGGAGACT
GTGGCTTCAACATGCCAACCTGAGCAGGTCTCCTCTGCATTACCTTCTTCCATTTCTTCTTCTGCTGCTGATG
AGGTGAGCTGGAGGAACCAATAGTCAGGATGCCCTGGAATTGATGTTGCTCTGTTTTGTGCTCACAAAACAGCCA
TGTAACACATGAGCACCTGAGTTGAAGCCATCCAGTCGCAAGTCAGCAGACAGCAGTTGATGGAATTCTCAGTAG
AAATTTCAGTAAGGGTGCCCAAAATTTATTTTTTTTTTTCACCTATACTCTACCAATATATGGTATTTAGGAAAAC
TCTTTTATCCAAGCACAAAGAAAAGCACACACATTTTATAATCATCTGCTTCATCAGGGTAAATAAATAATTTA
ACAAATTTGATCAGCATCTCTAGTTTACCAGTACTTTAATATTAGTTTTCTTACAAATTAATGTATTTTGCAATA
TTTCCAGAAAATCACTGTGGGAGAATAATGTAATATACTTTAGGATATATTTCTGACCTTTTCTTAAATGGCTT
CATGTGCTATTTCCCCAAATCTGCTTTCTCTATTTTCTTTTTTATTTAACCTATAATTATACTTTCTAGTATAT
TCTGAGTCTATCTTCTAAGCCACCTTACATTTTCTGGAACAAGGGAGGGAATAAATAGTTGCCTCCACTAAAT
CAGGAAAAAATAAATAATATCCAGGGGAGCTGTGATTATGCCAAGAGCTCTAAACAGAAGTTTGAGAAGGTAAAA
ATTAAGTTGTAGTATCTGAGTTGTTTTATTTTCTTCTTGGTGTATGAAGGTATTCATAAGAAGCTTTAATT

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FIGURE 251C

TCAGGGGAAAAAATGCCTGATTGCTATTTTGGACATTTTCCTCGTCTCTTAAGAAGTCAGTTAAATATGTTTTTC
ATAGTTTATATTCCTGTTTCATAGATTACTGTGAAACATGTATTTAAACCTATGAATTATAAAATAGTATTTAGA
TTCTAGCGTGAGTTAAATAGATTAGTCATATATCTTTTAGATTTGTGGATTTGACATGTAAATTATGTGTTGTGT
ATAAGTAAGTTAGTTACTAAACATATGGCATGGTTATTGATAAACTTGTTGCTATTTTTTTCCAAATGCTATCAG
TGTTTGTGGACTTTTAAAAATTAGTTTGAATTTTGGAAATGTTCTGTGATAAAATGTAATTTCAACTATTTTGTAC
ATTTAAATATGCCATGTTGTATATGTCTGTATTTAAAAATGTTGTAAATACCTGCATTTTAAGAATTATGAAAGA
TTTCCTCAAAAATGACAGAACTCTCCATACTTAATTGTGACACATTATAAGATATCTGATTTTAAGCTTTTGGA
TTTTGTTCTAAAAATTAAGTTTAAACATGCTGAAAATTCCATAAAAATAAAATTTTGAAAATAAA

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FIGURE 252

MHETNQGEFITSDSQEALFSKSSRGCLQNEKQDETLSSEITLWTEKQSNQDKKSIELNDQKFNELIKNCNKHDG
RGIIVDARQLPSPEPCEIQKNLNDNEMLFHSCQMVESHEEEELKPPEQEIEIDRNIIQEEEEKQAIPEFFEGRQA
KTPERYLKIRNYILDQWEICKPKYLNKTSVRPGLKNCQDVNCIGRIHTYLELIGAINFGCEQAVYNRPQTVDKVR
IRDRKDAVEAYQLAQRLQSMRTRRRRVDPWGNWCDAKDLEGQTFEHLSAEELAKRREEEEKGRPVKSLKVPRPTK
SSFDPFQLIPCNFFSEEKQEPFQVKVASEALLIMDLHAHVSMAEVIGLLGGRYSEVDKVVEVCAAEP CNSLSTGL
QCEMDPVSQTQASETLAVRGFSVIGWYHSHPAFDPNPSLRDIDTQAKYQSYFSRGGAKFIGMIVSPYNNRNNPLPY
SQITCLVISEEISPDGSYRLPYKFEVQQMLEEPQWGLVFETRWIIEKYRLSHSSVPMDKIFRRDSDLTCLQKLL
ECMRKTL SKVTNCFMAEEFLTEIENLFLSNYKSNQENGVTENCTKELLM

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FIGURE 253

CTCTCTCTGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCAGTTCGTGCCCAAGGACAAGGCCATTAAGACATTCGTCATTCTGA
AACATAGTGAAGGCCGCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCATCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAGGCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 254A

ATGGCACAACCGGGCAAATGCTCTGAAAAACGGATAAATAAATGCTGGTCACAGATGAGAACATCAGTCTAGCA
GAGCTTGCGAAGGCAGCAGGGAGGAGAAAACTCTGAGCTGTGTTTTGCCAGTGTCCACAGAGGGTTAGGAGGA
CCCAATGAAGGAATGACCCTGAAATGTGAACAGGGCGAAGAACTAGGCCCCAGCTCCCTGCAGAGAAGATACATC
AAAGCCCCACATGAGGATTTTTATAGCTCCACATTGGACAAGCTTCCTCTTCCTGAGATAGAGCCTACAGGGGAAG
GGACAGATTTGGGGCAAGGAGAGGAGTCTGAAAGAGATGGGGTACGCCGTAGTGAAAGCTGGAGTGAGAGCCTTC
GTATTCGAAGGCGGGGACTCGGGCGCTGTTGGCAGCTGGCGACGCGGGGCGAAGCCGCGGCTGGCGGCGCTGGC
CAGTCCCGCATCCGCGCGCTGCACCCGGAGGTTGCGTGCGCTCCGAAGCCGGGGTGTGCGCCTAGCTGCCCCGGC
CCCGTGCACCGCGGGGCGCCTCGCGCAGGACTTCCGCAGCTCGCCAAGCCTGGGGTCTGCGACAGAAAAGGAGCG
GGGTGCTCGGGCTGCCCAAAGGGTCATGGTTATTAAGGAAGAAAACACAGAATGGGCCCTTGATGGACTCTAT
TACCAAGTGCCATTGGACACGCAGGCAGTGTACTGGGAGACAGTCGTGGTGTGCTCAGAGGTATTGCCACGGCCT
GAAGTTCCTCTCTTGGCCGCAGCTGCCCCACTCTGCTGCAATCTTCTGGGGAGGGCTTCACCTGCCACTGCCTC
CTGCATGCCAGCATCGCCTGCTGCAGACTGCAGAGCTGGGGTGCCAAAGACCAGTCCTCTCAGGGGGATGAAGAG
AAAGACCTCCGAAGAGCCACCCTTATTCTGTGGAGACCCCATATGGCTTTCAATTTAGACCTGGACTTCCTCAAG
TATGTGGATGACATCGAGAAGGGAAACACTATCAAAAGAATTCTATCCACAGAAGGGCCAAGCAGGCCAAATTT
AGCACTCTGCCCCGAACTTCAGCCTTCCTGACAGTGGGGCTCGCCCCCTGCAGCCCCGCCCCCTCCAAAAGTGG
TCTCCCGTGGTGCCAAGGGAGGCATCACTTGGGACACAGGAGCAAACCAGTCACCACCGCTTGGTAATGCCCC
CAGGCCTCAACAAGCAGGAGTGAGGTGAGCTACCACAGGAAGGCTCTGTTGGCAGAGGCCACCAGACAGTTGGAA
GCTGCTGAGCCAGAGGATGCCGAGCTCACTTTTGGGAGTGGACGGCCCCAGCTCTTGAGAGCATCCAGCATGCCT
GCCACGCTGCTGCACAGCAGGGCTTCTGAGGAGCCAGGCCTGAGCCTGGGGCCCCCTGCCCTCCTGCCCTCCCT
CCCCTTCAGGGTGAAGGCAGTGTCTGTGATGGCACCTTTGAACCTGCAGAAGGATTGGCAGGTTTCCACAGCTCC
AGCCACAGCATCAACTCGGATTCCAGAGCTGGTCCAGGAGGGAGCTGAGCCTCCAGAGGGTGTGGTGAAGGTT
CCAAATCACCTCCCTCTCCCAGGCCCTCCTTTCTCATTCCAGAATGTGCTTGTAGTTCTAGAGGACAAGGAAGAT
GAACACAATGCCAGAGAAGCAGAGGTGTTGTTCAACCCCTGGCTCCCCCTACGCCAAGCCCGCCACCTCTGCCATCA
CCCATCCCTGAGAATGAGCTCCTCCTGGAAGAAATCGAGCTCAACATCAGCGAGATTCCACCCCGCCACCTGTA
GAGGTGGACATGAGAAGCATTGGCATCAGGGTAAGTGGAGAAAGCCTGGGCCTTGCCAGGGTGGATCCAGGCAGC
ATCTCCAGCCTGAAACAGCAGGTCTCGGCCCTGGAGGGAGAGTTGTCTGGAAGAACCGAGGAAGTGGCACAGGTC
AGAACTGCTCTCCAGCAGCAGGAAGAGGAAATCAAAGCTAGGGAGCAAAGAATTCGAGAGCTGGAGTTCACTGTA
GCCCAACTGGAAGGACAGTTTACCAAGAGAACGCCAAAGACACTCAGGGCCAGACGGACGTGATGGTGAACACT
GACCTGTCCATGGACTCTTGACCAGGGAGTCTGTGTGATAAGGGCATTGAAGTCAACCTTCTAGGCAGCATGGAG
TCTGAAAGCTGGGGGCACCGAGGAGAGGAGAATGGCCTCCTATGGGGGCCAGATGGTCATAAACAAGGGAATCAG
AGCCCAGCAGAACGTGTGCTTCTGCCCCAGCTGTCACTGCCACAGGGACCCGAGCAGGTCTTACCTCCTCTGTA
CATAGCTTCCTCTCCACTGAACTCAGGATTGAAGAAGCAGGCACTGAACAGGAAGGAGGCCCTCAGGGAGGAACC
AGGGGAGCAGGAGGCTTTCTGTGGGGCAGCGACAGAAAGACTCCCCAGCAGGGAGGGAGGAGACCAGTTCCAAT
CTCCCAGGGAAGGAGCACCCGGAAGGCCACCAAGCTCGCCAACGGATGCCACTATTGGGCAGTATGTGAAGAAG
ATCCAGGAGCTCCTGCAGGAGCAGTGAAGTGCCTGGAGCATGGGTACCCGGAGCTGGCCAGCGCCATCAAGCAG
CCAGCCTCCAAGCTCAGCAGCATCCAGAGCCAGCTGCTGAGCTCCCTCAACCTGCTGCTGTGCGCCTACTCGGCC
CAGGCTCACCCACCCAAGGAGCCACCGGCCCTCCTCCTCCTCCCCGCCAGTGGAGATCTCCCCATCGACCAGCCTT
AAATCCATAATGAAAAAGAAAGACTATGGCTTCGGTGCAGGAGGTAATGGGACCAAAAAGAACCTTCAGTTTGT
GGGGTTAACGGTGGGTATGAGACCACCTCAAGTGAGGAGACCAGCGGTGAGGACAGCACCCAGAGGACTTGTCT
GACAGCGAGGCAGAGAAGAAGTGTGACGGCCAGATCACAAGCATGTCAAAGATGCCCCATCTCACCTGCGAGGCT
GGGCAGGGCATCCCTGAGGGCACCTGCCATGCTGCCCAGGAAAGTGGGCCTGGGGGAAGAAGTCCCCACTCCAAG
GCCGAGAGCCGGAAGTCTGTAGCCCCGCGTGGTGGCCTCCTACCTCCACGAGGTCCAGCCTCACTCCCCACAC
TTCTGAAACTGCTTGTCAACTTGGCCGATCACAACGGGAACACGGCCCTTCACTACAGCGTGTCCACTCCAAC
TTCTCCATCGTGAAGCTGCTGCTGGAGACAGGCGTCTGCAATGTGGACCATCAGAACAAGCTGGCTACACTGCC
GTAATGATCACTCCCTTGGCTTCCGCAGAGACCAATGAAGACATGGCTGTTGTCTGGAAGCTCTTAAGAGAAGGA
AATGTGAACATTCAAGCTACTCAGGGAGGCCAGACTGCGCTGATGCTGGGAGTCAGCCACGACAGGGAGGACATG
GTTCAAGCGCTGCTTAGCTGCCAGGCAGATGTCAATCTGCAGGACCAGATGGATCCTCGGCCCTCATGGTGGCC
TGTCACCATGGCAACGTGGACCTGGTGGGCTGCTCCTGGCACACCCAGCCTGCGACAGCAGCCTGACTGACAAG

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FIGURE 254B

GCTGGCCGCACAGCTTTGTCCATCGCTCTGAAGTCACCCACCCATATGGAAATTGCTGGGCTTCTGAGAGCCCAC
GCGGAGCAGGGCAGGTCCCTGGGGCTGTAG

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FIGURE 255

MASVQEVMGPKRTFSLGLTVGMRPPQVRRAVRTAPORTCLTARQRRSVTAQITSMKMPISPARLGRASLRAP
AMLPRKVGLGKKSPTRPRDINPQKNFLMHAGH

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FIGURE 256A

GCGGCGGCCGCGGAGTATCCTGGAGCTGCAGACAGTGCGGGCTGCGCCCAGTCCCGGCTGTCTCGCCGCGACC
CCTCCTCAGCCCTGGGCGCGCGCACGCTGGGGCCCCGCGGGGCTGGCCGCTAGCGAGCCTGCCGGTCGACCCCA
GCCAGCGCAGCGACGGGGCGCTGCCTGGCCAGGCGCACACGGAAGTGCCTTCTCTGAAGTAGCTTTGGAAAGT
AGAGAAGAAAATCCAGTTTGCTTCTTGGAGAACACTGGACAGCTGAATAAATGCAGTATCTAAATATAAAAGAGG
ACTGCAATGCCATGGCTTTCTGTGCTAAAAATGAGGAGCTCCAAGAAGACTGAGGTGAACCTGGAGGCCCTGAGC
CAGGGGTGGAAGTGATCTTCTATCTGTGCGACAGGGAGCCCCCTCCGGCTGGGCAGTGGAGAGTACACAGCAGAGG
AACTGTGCATCAGGGCTGCACAGGCATGCCGTATCTCTCCTCTTTGTGACAACCTCTTTGCCCTGTATGACGAGA
ACACCAAGCTCTGGTATGCTCCAAATCGCACCATCACCGTTGATGACAAGATGTCCCTCCGGCTCCACTACCGGA
TGAGGTTCTATTTACCAATTGGCATGGAACCAACGACAATGAGCAGTCAGTGTGGCGTCATTCTCAAAGAAGC
AGAAAAATGGCTACGAGAAAAAAAAGATTCCAGATGCAACCCCTCTCCTTGATGCCAGCTCACTGGAGTATCTGT
TTGCTCAGGGACAGTATGATTTGGTGAAATGCCTGGCTCCTATTGAGACCCCAAGACCGAGCAGGATGGACATG
ATATTGAGAACGAGTGTCTAGGGATGGCTGTCTGGCCATCTCACACTATGCCATGATGAAGAAGATGCAGTTGC
CAGAACTGCCCAAGGACATCAGCTACAAGCGATATATTCCAGAAACATTGAATAAGTCCATCAGACAGAGGAACC
TTCTCACCAGGATGCGGATAAATAATGTTTTCAAGGATTTCTTAAAGGAATTTAACAACAAGACCATTTGTGACA
GCAGCGTGTCCACGCATGACCTGAAGGTGAAATACTTGGCTACCTTGGAACCTTTGACAAAACATTACGGTGCTG
AAATATTTGAGACTTCCATGTTACTGATTTTCATCAGAAAATGAGATGAATTGGTTTCATTGCAATGACGGTGGAA
ACGTTCTCTACTACGAAGTGATGGTGACTGGGAATCTTGAATCCAGTGGAGGCATAAACCAAATGTTGTTTCTG
TTGAAAAGGAAAAAATAAACTGAAGCGGAAAAAAGCTGGAAAATAAACACAAGAAGGATGAGGAGAAAAACAAGA
TCCGGGAAGAGTGGAACAATTTTTCTTACTTCCCTGAAATCACTCACATTGTAATAAAGGAGTCTGTGGTCAGCA
TTAACAAGCAGGACAACAAGAAAAATGGAAGTGAAGCTCTCTTCCCACGAGGAGGCCTTGTCCTTTGTGTCCCTGG
TAGATGGCTACTTCCGGCTCACAGCAGATGCCCATCATTACCTCTGCACCGACGTGGCCCCCCCCGTTGATCGTCC
ACAACATACAGAATGGCTGTCTATGGTCCAATCTGTACAGAATACGCCATCAATAAATTGCGGCAAGAAGGAAGCG
AGGAGGGGATGTACGTGCTGAGGTGGAGCTGCACCGACTTTGACAACATCCTCATGACCGTCACCTGCTTTGAGA
AGTCTGAGCAGGTGCAGGGTGCCAGAACGAGTTCAAGAAGCTTTCAGATCGAGGTGCAGAAGGGCCGCTACAGTC
TGCACGGTTTCGACCGCAGCTTCCCCAGCTTGGGAGACCTCATGAGCCACCTCAAGAAGCAGATCCTGCGCACGG
ATAACATCAGCTTCATGCTAAAACGCTGCTGCCAGCCCAAGCCCCGAGAAATCTCCAACCTGCTGGTGGCTACTA
AGAAAGCCCAGGAGTGGCAGCCCGTCTACCCCATGAGCCAGCTGAGTTTCGATCGGATCCTCAAGAAGGATCTGG
TGCAGGGCGAGCACCTTGGGAGAGGCACGAGAACACACATCTATTCTGGGACCCTGATGGATTACAAGGATGACG
AAGGAACCTTCTGAAGAGAAGAAGATAAAAGTGATCCTCAAAGTCTTAGACCCAGCCACAGGGATATTTCCCTGG
CCTTCTTCGAGGCAGCCAGCATGATGAGACAGGTCTCCACAAACACATCGTGTACCTCTATGGCGTCTGTGTCC
GCGACGTGGAGAATATCATGGTGGAAAGAGTTTGTGGAAGGGGGTCTCTGGATCTCTTCATGCACCGGAAAAGCG
ATGTCTTACCACACCATGGAATTCAAAGTTGCCAAACAGCTGGCCAGTGCCCTGAGCTACTTGGAGGATAAAG
ACCTGGTCCATGGAATGTGTGTACTAAAAACCTCCTCCTGGCCCGTGAGGGCATCGACAGTGAGTGTGGCCCAT
TCATCAAGCTCAGTGACCCCGGCATCCCCATTACGGTGCTGTCTAGGCAAGAATGCATTGAACGAATCCCATGGA
TTGCTCCTGAGTGTGTTGAGGACTCCAAGAACCTGAGTGTGGCTGCTGACAAGTGGAGCTTTGGAACACGCTCT
GGGAAATCTGCTACAATGGCGAGATCCCCCTGAAAGACAAGACGCTGATTGAGAAAGAGAGATTCTATGAAAGCC
GGTGCAGGCCAGTGACACCATCATGTAAGGAGCTGGCTGACCTCATGACCCGCTGCATGAACTATGACCCCAATC
AGAGGCCTTTCTTCCGAGCCATCATGAGAGACATTAATAAGCTTGAAGAGCAGAATCCAGATATTGTTTCAGAAA
AAAAACCAGCAACTGAAGTGGACCCACACATTTTGAAAAGCGCTTCCTAAAGAGGATCCGTGACTTGGGAGAGG
GCCACTTTGGGAAGGTTGAGCTCTGCAGGTATGACCCCGAAGGGGACAATACAGGGGAGCAGGTGGCTGTTAAAT
CTCTGAAGCCTGAGAGTGGAGGTAACCACATAGCTGATCTGAAAAGGAAATCGAGATCTTAAGGAACCTCTATC
ATGAGAACATTGTGAAGTACAAAGGAATCTGCACAGAAGACGGAGGAAATGGTATTAAGCTCATCATGGAATTTT
TGCCTTCGGGAAGCCTTAAGGAATATCTTCCAAAGAATAAGAACAAAATAAACCTCAAACAGCAGCTAAAAATATG
CCGTTTCAAGTTTGTAAAGGGGATGGACTATTTGGGTTCTCGGCAATACGTTTACCAGGACTTGGCAGCAAGAAATG
TCCTTGTGAGAGTGAACACCAAGTGAATAATGGAGACTTCGGTTTAAACCAAGCAATTGAAACCGATAAGGAGT
ATTACACCGTCAAGGATGACCGGGACAGCCCTGTGTTTTGGTATGCTCCAGAATGTTTAAATGCAATCTAAATTTT
ATATTGCCTCTGACGTCTGGTCTTTTGGAGTCACTCTGCATGAGCTGCTGACTTACTGTGATTAGATTCTAGTC
CCATGGCTTTGTTTCTGAAAATGATAGGCCCAACCCATGGCCAGATGACAGTCACAAGACTTGTGAATACGTTAA

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FIGURE 256B

AAGAAGGAAAAACGCCTGCCGTGCCACCTAACTGTCCAGATGAGGTTTATCAACTTATGAGGAAATGCTGGGAAT
TCCAACCATCCAATCGGACAAGCTTTT CAGAACCTTATTGAAGGATTTGAAGCACTTTTTAAAATAAGAAGCATGAA
TAACATTTAAATTCCACAGATTATCAAGTCCTTCTCCTGCAACAAATGCCCAAGTCATTTTTTAAAAATTTCTAA
TGAAAGAAGTTTGTGTTCTGTCCAAAAAGTCACTGAACCTCATACTTCAGTACATATACATGTATAAGGCACACTG
TAGTGCTTAATATGTGTGAAGGACTTCCTCTTTAAATTTGGTACCAGTAACTTAGTGACACATAATGACAACCAAA
ATATTTGAAAGCACTTAAGCACTCCTCCTTGTGGAAAGAATATACCACCATTTTCATCTGGCTAGTTCACCATCAC
AACTGCATTACCAAAAGGGGATTTTTGAAAACGAGGAGTTGACCAAAATAATATCTGAAGATGATTGCTTTTCCC
TGCTGCCAGCTGATCTGAAATGTTTTGCTGGCACATTAATCATAGATAAAGAAAGATTGATGGACTTAGCCCTCA
AATTCAGTATCTATACAGTACTAGACCATGCATTCTTAAATATTTAGATACCAGGTAGTATATATTGTTTCTGT
ACAAAAATGACTGTATTCTCTCACCAGTAGGACTTAACTTTGTTTCTCCAGTGGCTTAGCTCCTGTTTCTTTGG
GTGATCACTAGCACCCATTTTTGAGAAAGCTGGTTCTACATGGGGGGATAGCTGTGGAATAGATAATTTGCTGCA
TGTTAATTCTCAAGAACTAAGCCTGTGCCAGTGCTTTCCTAAGCAGTATACCTTTAATCAGAACTCATTCCCAGA
ACCTGGATGCTATTACACATGCTTTTTAAGAAACGTCAATGTATATCCTTTTATACTCTACCCTTTGGGGCAAG
CTATTCCAGCACTGGTTTTGAATGCTGTATGCAACCAGTCTGAATACCACATACGCTGCACTGTTCTTAGAGGGT
TTCCATACTTACCACCGATCTACAAGGGTTGATCCCTGTTTTTACCATCAATCATCACCTGTGGTGCAACACTT
GAAAGACCCGGCTAGAGGCACTATGGACTTCAGGATCCACTAGACAGTTTTTCAGTTTGCTTGGAGGTAGCTGGGT
AATCAAAAATGTTTAGTCATTGATTCAATGTGAACGATTACGGTCTTTATGACCAAGAGTCTGAAAATCTTTTG
TTATGCTGTTTAGTATTGTTTTGATATTGTTACTTTTACCTGTTGAGCCCAAATTCAGGATTGGTTTCACTGGCA
GCAATGAAGTTGCCATTTAAATTTGTTTCATAGCCTACATCACCAGGTCTCTGTGTCAAACCTGTGGCCACTCTA
TATGCACTTTGTTTACTCTTTTATACAAATAAATATACTAAAGACTTT

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FIGURE 257

CTCTTCATAAGCCGGCGCTCGGCGAGTTCTCCCAGGAGAAGGCCATGTTTCAGTTCGAGCGCCAAGATCGTGAAAC
CCAACGGCGAGAAGCCGGAGGAGTTTCGAGTCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCAGAAC
TCAAGGCTCAGCTCAGAGAGCTGAATATTACGGCAGCCAAGGAAATTGAAGTTGGTGGTGGTCGGAAAGCTATCA
TAATACTTGTTCCCGTTACTCAACTGAAATCTTTCCAGAAAATCCAAATCCGGCTAGTAAGTGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTCGTCTTTATCGCTCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCTGTACAA
AAAATAAGCAAAAGCGTCCCAGGAGCAGCACTGTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCC
CAAGTGAAATTGTGGGCAAGAAAATCCGCGTCAAACCTAGATGGCAGCCGGCTCATAAAGGTTCAATTTGGACAAAG
CACAACAGAACAATGTGGAACACAAGGTTGAAACTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTA
ATTGTGAATTCCCAGAGTTTCAATAGTAAACAAAAATGACTAAATAAAAAATATATATATTCATAGT

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FIGURE 258

MFSSSAKIVKPNGEKPEEFESGISQALLELEMNSELKAQLRELNITAAKEIEVGGGRKAI IILVPVTQLKSFQKI
QIRLVSELEKKFSGKHVVFIAQRRILPKPTRKSCTKNKQKRPRSSTVTAVHDAILEDLVFPSEIVGKKIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLMGKDVNCEFPEFQS

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FIGURE 259

GGAGAAGGCCATGTTTCAGTTCGAGCGCCAAGATCGTGAAACCCAACGGCGAGAAGCCGGAGGAGTTCGAGTCCGG
CATCTCCCAGGAAATTGAAGTTGGTGGTGGTCGGAAAGCTATCATAATACTTGTTCCCGTTACTCAACTGAAATC
TTTCCAGAAAATCCAAATCCGGCTAGTAAGTGAATTGGAGAAAAGTTCAGTGGGAAGCATGTCGTCCTTTATCGC
TCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCTGTACAAAAAATAAGCAAAAGCGTCCCAGGAGCAGCAC
TGTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCCCAAGTGAAATTGTGGGCAAGAAAATCCGCGT
CAAAC TAGATGGCAGCCGGCTCATAAAGGTTCAATTGGACAAAGCACAAACAGAACAATGTGGAACACAAGGTTGA
AACTTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTAATTGTGAATTCCCAGAGTTTCAATAGTAAAC
AAAAATGACTAAATAAAAAATATATATATTTCATAGTAAAAAAAAAAAAAAAAAATCTC

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FIGURE 260

GGGGGTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCCGCTGCAATCCGTGGAGGAACGCGCCGCCG
AGCCACCATC**ATG**CCTGGGCACTTACAGGAAGGCTTCGGCTGCGTGGTCACCAACCGATTTCGACCAGTTATTTGA
CGACGAATCGGACCCCTTCGAGGTGCTGAAGGCAGCAGAGAACAAGAAAAAGAGCCGGCGGGGGCGGCGTTGG
GGGCCCTGGGGCCAAGAGCGCAGCTCAGGCCGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAA
GGAGTCCCAGAAAAGACCGCAAGAACCCGCTGCCCCCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCC
GCCCCGTGGCGCTTAAGAAAGAAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAAGGGAA
AATAATTGATAGAAGACCAGAAAGGCGACCACCTCGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGA
AGGAGGCGAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCGAGGTGCTGGTGGTCTTGAAGAGGTGCG
AGGGGGCCCGTGGACGTGGAATGGGCCGAGGAGATGGATTTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAG
TGGAAGTGATAGATCTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAACCTGGGGAACCTGTCAA
AGACGAATTAACCTGACTTGGATCAATCAAATGTGACTGAGGAAACACCTGAAGGTGAAGAACATCATCCAGTGGC
AGACACTGAAAATAAGGAGAATGAAGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATGACTTTGGATGAGTG
GAAGGCTATTCAAAAATAAGGACCGGGCAAAAGTAGAATTTAATATCCGAAAACCAAATGAAGGTGCTGATGGGCA
GTGGAAGAAGGGATTGTCTTCATAAATCAAAGAGTGAAGAGGCTCATGCTGAAGATTGCGTTATGGACCATCA
TTTCCGGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCCGCCCAGGACGTGG
CGGCAGGGGAGGACGAGGTGGACGTGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCGACAAGTCAAGTGC
TTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCAGCTCTGGCT**TAA**CTGGATGCCATAAGACAACCTGGTT
CCTTTGTGAACCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAACGACTAAGAAATTAATAAAAAAAG
ACTGTCATTACATACCATTACACCTAAAGACTGAATTTTATCTGTTTTAAAAATGAACCTCTCCCGCTACACAGA
AGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTCATATTTTCAGAGAT
TATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAAACTTGAAATATAGGTGTGAAC
AGTGTGTACCAGTTTAAAGCTTTCACCTCATTGTGTTTTTAAATTAAGGACTTAGAAGTTCCCCCAATTACAAA
CTGGTTTTAAATATTGGACATACTGGTTTTAATACCTGCTTTGCATATTACACATGGTCAACTGGGACATGTTA
AACTTTGATTTGTCAAATTTTATGCTGTGTGGAATACTAATAATATGATTTTAACTTAGTTTTAATATTTTCAT
ITTGGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTATATACAGAAATA
TCAGTACTTGAACAAATTCAAAGCACATTTGGTTTTATTAACCTTGCTCCTTGCTATGGCTCATTAGGTTCAAATT
ATAACTAATTTACATTTTCAGCTATATTTACTTTTTAAATGCTTGAGTTTCCCATTTTAAATCTAACTAGACA
TCTTAATTGGTGAAAGTTGTTTAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTTATAGGT
ATGGGTTTTTTCTCCCCCTTACCAGGGTGGGTGGAATAAGTTGATTTGGCCAATGTGTAATATTTAACTGTTC
TGTAATAAAAAAAAAAAAAAAAAA

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FIGURE 261

MPGHLQEGFGCVVTNRFDQLFDDESDPF EVLKAAENKKKEAGGGGVGGPGAKSAAQAAAQTNSNAAGKQLRKESQ
KDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQGEKIIDRRPERRPPRERRFEKPLEEKGE
FSVDRPIIDRPIRGRGGLGRGRGGRGRGMGRGDGFD SRGKREFDRHSGSDRSGLKHEDKRGGSGSHNWGTVKDEL
TDLDQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKDRAKVEFNIRKPNEGADGQWKK
GFVLHKSSEEHAEDSVMDHHRKFPANDITSQLEINFGDLGRPGRGGRGGRGGRGGRGGRPNRGSRTDKSSASAP
DVDDPEAFPALA

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FIGURE 262

ACCTTTAAGCGTCACGGGTGGGGCTGCAGCTTCTGGACCTAGGACTTTGAACATGTCGCGCCTGAAGCGGATAGC
GGGGCAGGATCTCCGCGCTGGTTTCAAAGCAGGTGGAAGAGACTGCGGTACCTCGGTACCCCAAGGGCTGTTGAA
GGCAGCGAGGAAGAGCGGCCAGTTAAACCTGTCGGGTAGAAACCTCAGTGAAGTGCCGCGAGTGTGTCTGGAGAAT
AAATGTGGATATCCCTGAGGAAGCTAATCAGAATCTTTCGTTTGGTGCTACTGAAAGATGGTGGGAGCAGACAGA
TTTGACCAAATAATAATATCAAACAATAAACTTCAGTCACTTACAGATGACCTGCGACTCTTGCCCTGCACTGAC
TGTTCTTGATATACATGATAATCAGTTGACATCCCTTCCTTCTGCTATAAGAGAGCTAGAAAATCTTCAGAACT
TAATGTCAGCCATAATAAACTGAAAATACTCCCTGAAGAAATTACAAACCTAAGAAACCTGAAGTGCCGTGTATCT
CCAGCATAATGAATTAACCTGCATATCAGAGGGATTGAAACAACCTTTCCAATTTAGAAGATTTAGATCTTCAA
CAATCATCTTACAACCTGTTCTGCTAGTTTTCTTCTCTGTCCAGTCTGGTGCGACTCAATCTTCTAGTAATGA
ACTGAAGAGTTTGCCAGCAGAAATAAATAGAATGAAAAGGTTGAAGCATTGATTGTAATTCAAATCTCTTGGA
AACTATACCTCCTGAATTGGCTGGCATGGAATCACTAGAATTGCTTTATTTGCGGAGGAATAAATTACGTTTTCT
ACCAGAATTTCTTCTTGTAGTCTATTGAAGGAATTGCACGTAGGTGAAAACCAGATTGAAATGTTAGAGGCAGA
ACATCTTAAACATCTGAATTCAATTCCTTGTGCTAGACCTGAGGGATAACAAGTTAAATCTGTTCCAGATGAAAT
TATACTACTACGGTCCTTGGAAGGCTTGACCTAAGCAACAATGATATTAGTAGTCTTCCCTATTCATTGGGGAA
CCTTCATTTGAAATTTTTGGCATTAGAAGGAAATCCTTTGAGAACAATTGGAAGAGAAATTATAAGTAAAGGAAC
ACAAGAAGTCCTAAAATATCTACGAAGCAAGATCAAAGATGATGGACCTAGCCAAAGTGAGTCTGCTACTGAGAC
TGCCATGACACTACCAAGTGAATCCAGAGTCAATATACATGCCATCATTACATTAAAAATATTAGACTATAGTGA
TAAACAAGCAACTTTGATTCTGATGAGGTGTTTGATGCAGTAAAAGCAACATCGTCACTTCTATTAACCTCAG
TAAGAATCAACTATGTGAAATTCCAAAAGGATGGTAGAACTGAAGGAAATGGTTTCTGATGTGATCTCAGTTT
TAATAAACTTTCTTTATATCCTTGAGTTATGTGTGCTTCAGAAATTGACTTTTTTTAGATCTCAGGAACAATTT
TTTAAATTTCTTTGCCAGAAGAAATGGAATCACTGGTAAGACTGCAAACGATCAATCTTCTTTAATAGGTTTAA
AATGCTACCTGAAGTTCTATATCGTATCTTCACACTTGAACAATTCTGATTAGTAATAATCAGGTTGGATCTGT
GGACCCTCAGAAAATGAAGATGATGGAATCTGACCACGTTGGACCTTCAAATAATGACCTCTTACAAATTCC
ACCAGAGCTCGGTAATTGTGTAACTTAAGAACATTACTATTGGATGGAAATCCATTCCGAGTTCTCGAGCAGC
CATATTAATGAAAGGAACAGCTGCTATACTTGAATATTTGAGAGACCGAATTCCTACTTAACATGGAGTTGCTTT
ATAACCTTGTGATGATTATTAACCTGGTTAATTCTAAGGAGGATGTAACATTTGTTTTAGTATCATCTTAAA
AGGTGATTATTGTAATTGATCTTGTAGTTCCCAGTATCACCTACCGTTGGTATAATTAGCCTGGGCCATATTC
ACTGCCAGTAAATATTTTACATTTTATTTAAGATTTTGTAAAGGTGTTGTGTACATTTGTAATGGTGATAACC
ACAATGTGTTTACATATTTGTTCTAAATGTTTTGCTTATGATTTATCCTGCTAACTTTTCAATTTCTTATAGCAAG
CAGTTTTTTTCAAAAATGAATTTTTATTTAATGTGGTTCAGTATTATAATAACAAAGCATTTTTGTAGAACTGGTT
TTTTTTCTCATTTATTTTGTATTCCATACAATGTGACCAATTGACTTGAATATGACTAGCCAGTTTCTATGTTT
TTGTTAGATATAAAATTAATCGAATTTTGTGTAATACTGTTCTTTGGCATTAAAAAATAAGACCTTCTTATCT
TGGGCCACATGTCAAAAGAAAAAGGAAACAAAAATATATTAATAAAGACTTTTCATTACCCATGATAGGACTT
TTGTGATATGGCTAATCTCAGTACACATTTCAACTTAAACCTTTTTATTTACAGCACCATAATTTTAAATTTA
CTTGCAATCTTGGTAAGACTAACTTGCACTGTTTTTCTAAAAGGGAATTTGATAGGTAACTTGATTTAATAAA
AATTAAATATCATTTTTGTTTACACCAAAATATCAGAAGTAGGTTGATTAGTCATTATAACACTTACCATATGA
TTCTATTAAGAAGTCAATTCAGTAGCATGTATATCAATTTATATAGATAGGTAGATAGCTTTTGGATGATTGAGG
CATGCTTATATTATGAAAAAATTGCTAATAAAGATAAATACTACATGTTTCAATAAAGTTACATTTTTTC

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FIGURE 263

MSRLKRIAGQDLRAGFKAGGRDCGTSVPQGGLLKAARKSGQLNLSGRNLSEVPQCVWRINVNDIPEEANQNLSFGAT
ERWWEQTDLTCLIISNNKLQSLTDDLRLLPALTVLDIHDNQLTSLPSAIRELENLQKLNVSHNKLKILPEEITNL
RNLKCLYLQHNELTICISEGFEQLSNLEDLDLSNNHLTTVPASFSSLSLVRLNLSSNELKSLPAEINRMKRLKHL
DCNSNLETIPPESLAGMESLELLYLRRNKLRLPEFPSCSLKELHVGENQIEMLEAEHLKHLNSILVLDLRDNK
LKSVPDEIILLRSLERLDLSNNDISSLPYSLGNLHLKFLALEGNPLRTIRREIISKGTQEVLYLRSKIKDDGPS
QSEATETAMTLPSES RVNIHAIITLKILDYSDKQATLIPDEVF DAVKSNIVTSINFSKNQLCEIPKRMVELKEM
VSDVDLSFNKLSFISLELCVLQKLTFLDLRNNFLNSLP EEMESLVRLQTINLSFNRFKMLPEVLYRIFTLETILI
SNNQVGSVDPQKMKMMENLTTLDLQNNDLLQIPPELGNCVNLRTLLLDGNPFRVPRAAILMKGTAAILEYLRDRI
PT

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FIGURE 264

GCTCTTTCCTAAGCAGCCTGAGGTAATCTGTGAAAATGGTTCGCTACTCACTTGACCCGGAGAACCCACGAAA
TCACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACAAAAGCCACGAAGTATCTGAAAGATGTCACTT
TACAGAAACAGTGTGTACCATTCCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCT
GGACACAAGGTCGGTGGCCCCAAAAGAGTGCTGAATTTTGTGCTGCACATGCTTAAAAACACAGAGAGTAATGCTG
AACTTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCC
GGACCTACAGAGCTCATGGTCGGATTAAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAA
AGGAACAGATTGTTCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAAC
AAAACTTATGGCACGGGAGTAAATTCAGCATTAAAAATAAATGTAATTAAAAGGAAAAATAAAAAATAAAATAA
ATAAATAAATAAATAAAAAAAAAAAAAAAAAAAAAAG

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FIGURE 265

GCTCTTTCCTAAGCAGCCTGAGGTAATCTGTGAAAATGGTTCGCTACTCACTTGACCCGGAGAACCCACGAAA
TCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGAAACTGCTCAGGCCATCAAGGGT
ATGCATATACAAAAGCCACGAAGTATCTGAAAGATGTCACCTTACAGAAACAGTGTGTACCATTCCGACGTTAC
AATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAGAGTGCT
GAATTTTGTGTCACATGCTTAAAAACACAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTC
ATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTACAGAGCTCATGGTCCGATTAAACCA
TACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAACCAGAAGAGGAG
GTTGCCCAGAAGAAAAGATATCCCAGAAGAACTGAAGAAACAAAACCTTATGGCACGGGAGTAAATTCAGCAT
TAAAATAAATGTAATTAAAAGG

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FIGURE 266

MVRYSLDPENPTKSCKSRGSNLRVHFKNTRETAQAIGMYIQGTKYLKDVTLQKQCIPFRHYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHVLKNTESNAELKGRFSGH

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FIGURE 267

CGGGAAGGATTGAATACGAGACGCTGTCTGCTTGCTGCCTTAAGACAGCTAGCTGAATTGCTGATTAACTTTTAA
AATACCCAGCTTGGTTTATTTTTCTTAGAATCTGTTGCTAAGACTGGGGACGCTGTTTTCTTTACAAAGGGAAA
TCTAAGTTAATTTCAAGGCATTTCGAAATGCGGGAAAGACTATTATTGCATTTTGGAATTGAGAAAGGAGCTTCAG
ATGAAGATATTA AAAAGGCTTACCGAAAACAAGCCCTCAAATTTTCATCCGGACAAGAACAAATCTCCTCAGGCAG
AGGAAAAATTTAAAGAGGTCGCAGAAAGCTTATGAAGTATTGAGTGATCCTAAAAAGAGAGAAATATATGATCAGT
TTGGGGAGGAAGGGTTGAAAGGAGGAGCAGGAGGTACTGATGGACAAGGAGGTACCTTCCGGTACACCTTTTCATG
GCGATCCTCATGCTACATTTGCTGCATTTTTCGGAGGGTCCAACCCCTTTGAAATTTTCTTTGGAAGACGAATGG
GTGGTGGTAGAGATTCTGAAGAAATGGAAATAGATGGTGATCCTTTTAGTGCCTTTGGTTTCAGCATGAATGGAT
ATCCAAGAGACAGGAATTCTGTGGGGCCATCCCGCCTCAAACAAGATCCTCCAGTTATTCATGAACCTTAGAGTAT
CACTTGAAGAGATATATAGTGGTTGTACCAAACGGATGAAGATTTCTCGAAAAGGCTAAACGCTGATGGAAGGA
GTTACAGATCTGAGGACAAAATTCTTACCATTGAGATTAAAAAAGGGTGGAAAGAAGGCACCAAAATTACTTTTC
CAAGAGAAGGAGATGAAACACCAAAATAGTATTCCAGCAGACATTGTTTTTATCATTAAAGACAAAGATCATCCAA
AATTTAAAAGGGATGGATCAAATATAATTTATACTGCTAAAATTAGTTTACGAGAGGCATTGTGTGGCTGCTCAA
TTAATGTACCAACACTGGATGGAAGAAACATACCTATGTCAGTAAATGATATTGTGAAACCCGGAATGAGGAGAA
GAATTATTGGATATGGGCTGCCATTTCCAAAAATCCTGACCAACGTGGTGACCTTCTAATAGAATTTGAGGTGT
CCTTCCCAGATACTATATCTTCTTCATCCAAAGAAGTACTTAGGAAACATCTTCTGCCTCATAGAAATGAAGAAC
TTTGTTACACATATTTTGATAAGGCACTGAAAATATAAAAGGACTGGTAGTTTACTGATGTAGATGTGAATTCTG
TATAAAGATGTGTAAATTGTTTTGAGGGTTCATTAAATTGCAT

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FIGURE 268

MGKDYYCILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEKFKEVAEAYEVLSDPKKREIYDQFGEEGLKGG
AGGTDGQGGTFRYTFHGDPHATFAAFFGGSNPFIEIFFGRMGGGGRDSEEMEIDGDPFSAFGFSMNGYPRDRNSVG
PSRLKQDPPVIHELRSLEEIYSGCTKRMKISRKRLNADGRSYRSEDKILTIEIKKGWKEGKITFPREGDETPN
SIPADIVFIIKDKDHPKFKRDGSNIIYTAKISLREALCGCSINVPTLDGRNIPMSVNDIVKPGMRRRIIGYGLPF
PKNPDQRGDLLEFEVSFPDTISSSSKEVLRKHLPAS

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FIGURE 269

GCGCACGGCCTGTCCGCTGCACACCAGCTTGTTGGCGTCTTCGTGCGCGGCTCGCCCCGGGCTACTCCTGCGCG
CCACAATGAGCTCCCGCATCGCCAGGGCGCTCGCCTTAGTCGTACCCTTCTCCACTTGACCAGGCTGGCGCTCT
CCACCTGCCCCGCTGCCTGCCACTGCCCCCTGGAGGCGCCCAAGTGCGCGCGGGAGTCGGGCTGGTCCGGGACG
GCTGCGGCTGCTGTAAGGTCTGCGCCAAGCAGCTCAACGAGGACTGCAGCAAAACGCAGCCCTGCGACCACACCA
AGGGGCTGGAATGCAACTTCGGCGCCAGCTCCACCGCTCTGAAGGGGATCTGCAGAGCTCAGTCAGAGGGCAGAC
CCTGTGAATATAACTCCAGAATCTACCAAAACGGGGAAAGTTTCCAGCCCAACTGTAAACATCAGTGCACATGTA
TTGATGGCGCCGTGGGCTGCATTCTCTGTGTCCCAAGAAGTATCTCTCCCAACTTGGGCTGTCCCAACCCCTC
GGCTGGTCAAAGTTACCGGGCAGTGCTGCGAGGAGTGGGTCTGTGACGAGGATAGTATCAAGGACCCCATGGAGG
ACCAGGACGGCCTCCTTGGTAAGGAGCTGGGATTTCGATGCCTCCGAGGTGGAGTTGACGAGAAACAATGAATTGA
TTGCAGTTGGAAAAGGCAGCTCACTGAAGCGGATCCCTGTTTTTGAATGGAGCCTCGCATCCGATACAACCCCTT
TACAAGGCCAGAAATGTATTGTTCAAACAACCTTCATGGTCCAGTGCTCAAAGACCTGTGGAAGTGGTATCTCCA
CACGAGTTACCAATGACAACCCCTGAGTGCCGCCTTGTGAAAGAAACCCGGATTGTGAGGTGCGGCCTTGTGGAC
AGCCAGTGTAACAGCAGCCTGAAAAAGGGCAAGAAATGCAGCAAGACCAAGAAATCCCCGAACCAGTCAGGTTTA
CTTACGCTGGATGTTTGAAGTGTGAAGAAATACCGGCCCAAGTACTGCGGTTCTGCGTGGACGCGCCGATGCTGCA
CGCCCCAGCTGACCAGGACTGTGAAGATGCGGTTCCGCTGCGAAGATGGGGAGACATTTTCCAAGAACGTCATGA
TGATCCAGTCCTGCAAATGCAACTACAAGTCCCGCATGCCAATGAAGCAGCGTTTCCCTTCTACAGGCTGTTCA
ATGACATTCACAAATTTAGGGACTTAAATGCTACCTGGGTTTCCAGGGCACACCTAGACAAACAAGGGAGAAGAGT
GTCAGAATCAGAATCATGGAGAAAATGGGCGGGGGTGGTGTGGGTGATGGGACTCATTGTAGAAAGGAAGCCTTG
CTCATTCTTGAGGAGCATTAAGGTATTTGAAACTGCCAAGGGTGCTGGTGCGGATGGACACTAATGCAGCCACG
ATTGGAGAATACTTTGCTTCATAGTATTGGAGCACATGTTACTGCTTCATTTTGGAGCTTGTTGGAGTTGATGACT
TTCIGTTTTCTGTTGTAAATTATTTGCTAAGCATATTTCTCTAGGCTTTTTTCTTTTGGGGTTCTACAGTCG
TAAAAGAGATAATAAGATTAGTTGGACAGTTTAAAGCTTTTATTTCGTCTTTGACAAAAGTAAATGGGAGGGCAT
TCCATCCCTTCTGAAAGGGGGACACTCCATGAGTGTCTGTGAGAGGCAGCTATCTGCACTCTAAACTGCAAACAG
AAATCAGGTGTTTTAAGACTGAATGTTTTATTTATCAAATGTAGCTTTTGGGGAGGGAGGGGAAATGTAATACT
GGAATAATTTGTAAATGATTTTAATTTTATATTTCAGTGAAAAGATTTTATTTATGGAATTAACCATTTAATAAAG
AAATATTTACCT

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FIGURE 270

MSSRIARALALVVTLHLTRLALSTCPAACHCPLEAPKCAPGVGLVRDGCCKVCAKQLNEDCSKTQPCDHTKG
LECNFGASSTALKGICRAQSEGRPC EYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCPQELSLPNLGCPNPRL
VKVTGQCCEEWVCDEDSIKDPMEDQDGLLGKELGFDASEVELTRNNELIAVGKGSSLKRIPVFGMEPRIRYNPLQ
GQKCIVQTTWSQCSKTCGTGISTRVTNDNPECRLVKETRICEVRPCGPVYSSLKKGKKCSKTKKSPEPVRFTY
AGCLSVKKYRPKYCGSCVDGRCCTPQLTRTVKMRFRCEGETFSKNVMMIQSCKCNYNCPHANEAAFPFYRLFND
IHKFRD

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FIGURE 272

MVNP GSSSQPPV TAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKSCCQAQLGDIGTSCYTKSGMILCRN
DYIRLFGNSGACSACGQSIPASELVMRAQGNVYHLKCFTCSTCRNRLVPGDRFHYINGSLFCEHDRPTALINGHL
NSLQSNP LLPDQKVC

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FIGURE 273

AGCGATGGCGGCTGGGCCGAGTGGGTGCTCTGGTGCCGGCGTTTGGGCTACGGTTGTTGTTGGCGACTGTGCTTCA
AGCGGTGTCTGCTTTTGGGGCAGAGTTTTCATCGGAGGCATGCAGAGAGTTAGGCTTTTCTAGCAACTTGCTTTG
CAGCTCTTGTGATCTTCTCGGACAGTTCAACCTGCTTCAGCTGGATCCTGATTGCAGAGGATGCTGTCAGGAGGA
AGCACAATTTGAAACCAAAAAGCTGTATGCAGGAGCTATTCTTGAAGTTTGTGGATGAAAATTGGGAAGGTTCCC
TCAAGTCCAAGCTTTTGTTAGGAGTGATAAACCCAACTGTTTCAGAGGACTGCAAATCAAGTATGTCCGTGGTTC
AGACCCTGTATTAAAGCTTTTGGACGACAATGGGAACATTGCTGAAGAACTGAGCATTCTCAAATGGAACACAGA
CAGTGTAGAAGAATTCCTGAGTGAAAAGTTGGAACGCATATAAATCTTGCTTAAATTTTGTCTATCCTTTTGT
ACCTTATCAAATGAAATATTACAGCACCTAGAAAATAATTTAGTTTTTGCTTGCTTCCATTGATCAGTCTTTTACT
TGAGGCATTAAATATCTAATTAAATCGTGAAATGGCAGTATAGTCCATGATATCTAAGGAGTTGGCAAGCTTAAC
AAAACCCATTTTTTATAAATGTCCATCCTCCTGCATTTGTTGATACCACTAACAAAATGCTTTGTAACAGACTTG
CGGTTAATTATGCAAATGATAGTTTGTGATAATTGGTCCAGTTTTACGAACAACAGATTTCTAAATTAGAGAGGT
TAACAAGACAGATGATTACTATGCCTCATGTGCTGTGTGCTCTTTGAAAGGAATGACAGCAGACTACAAAGCAAA
TAAGATATACTGAGCCTCAACAGATTGCCTGCTCCTCAGAGTCTCTCCTATTTTTGTATTACCCAGCTTTCTTTT
TAATACAAATGTTATTTATAGTTTACAATGAATGCACTGCATAAAAACCTTTGTAGCTTCATTATTGTAAACATA
TTCAAGATCCTACAGTAAGAGTGAAACATTCACAAAGATTTGCGTTAATGAAGACTACACAGAAAACCTTTCTAG
GGATTTGTGTGGATCAGATACATACTTGGCAAATTTTTGAGTTTTACATTCTTACAGAAAAGTCCATTTAAAAGT
GATCATTTGTAAGACCAAAATATAAATAAAAAGTTTCAAAAATCTATCTGAATTTGGAATTCTTCTGGTTTGTTT
TTTCATGTTTTAAAATGATGTTTTTCAATGCATTTTTTTTCATGTAAGCCCTTTTTTTAGCCAAAATGTAAAATG
GCTGTAATATTTAAACTTATAACATCTTATTGTTGGTAATAGTGCTTTATATTTGTCTGATTTTATTTTTCAA
GTTTTTTCATTTATGAACACATTTTCATTGGTATATTATTTAAGGAATATCTCTTGATATAGAATTTTTATATTA
AAAATGATTTTTCTTTGGC

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FIGURE 274

MAAGPSGCLVPAFGLRLLLATVLQAVSAFGAEFSSEACRELGFSSNLLCSSCDLLGQFNLLQLDPDCRGCCQEEA
QFETKKLYAGAILEVCGENWEGSLKSKLLLGVINPNCSEDCKSSMSVVQTLYLKLLDDNGNIAEELSILKWNTDS
VEEFLSEKLERI

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FIGURE 275

GCTCTTTCCTAAGCAGCCTGAAGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCCATGAAA
TCACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTTAAAGATGTCAC
TTTACAGAAACAGTGCATACCATTCCGACGTTACAATGGTGGAGTTGGCAAGTGTGCGCAGGCCAAGCAGTGGGG
CTGGACACAAGGTCGGTGGCCCCAAAAAGAGTGCTGAATTTTTGCTGCACATGTTTAAAAACGCAGAGGGTAATAC
TGAACCTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGTATATCCAAGTGAACAAAGCACCTAAGATGCTCCG
CCGGACCTACAGAGCTCATGGTCGGATTAACTCATACATGAGCTCTCCCTGGCACATTGAGATGATCCTTACTGA
AAAGGAACAGATTGTTCCCTAAACCAGAAAAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAA
ACAAAAACTTATGGCCCGGAAGTAAATTCAGCATTAAATAAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAG

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FIGURE 276

GCTCTTTCCCTAAGCAGCCTGAAGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCCATGAAA
TCATGCAAATCAAGAGGTCCAATCTTCGTGTTCACTTTAAGGACACTCGTGAAACTGCTCAGGCCATCAAGGGT
ATGCATATACGAAAAGCCACGAAGTATCTTAAAGATGTCACTTTACAGAAACAGTGCATACCATTCGGACGTTAC
AATGGTGGAGTTGGCAAGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAGAGTGCT
GAATTTTTGCTGCACATGTTTAAAAACGCAGAGGGTAATACTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTC
ATTGAGTATATCCAAGTGAACAAAGCACCTAAGATGCTCCGCCGGACCTACAGAGCTCATGGTCGGATTAACTCA
TACATGAGCTCTCCCTGGCACATTGAGATGATCCTTACTGAAAAGGAACAGATTGTTCCCTAAACCAGAAAAGGAG
GTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTATGGCCCCGGAAGTAAATTCAGCAT
TAAATAAATGTAATTAAAAGG

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FIGURE 277

CTTTTTTACAACGGGTTTGCTGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAAGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCATTCTGGCCATCTGATCTAC
AAATGCGGTGGCATCGACAAAAGAACAATTGAAAAATTGCAGAAAGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGAGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGGTTGTGCTGTCCTAATTGTTGCTGCTGGTGTTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCATATACACTGGGTGTGAAACAACATAATTGTTGATGTTAACAAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAATCAGCACTTACATTAAG
AAAATTGGCTACAACCCCAACACAGTAGCATTTGTGCCAATTTCTGGTTAGAATGGTGACAACATGCTGGAGCCA
AGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCATAAGGATGGCAATGCCAGTGGAAACCATGCTGCTT
GAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAC TGACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTAC
AAAATTGGTGGTATTGGTACTGTTCTTGTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCTGGTATGGTGGTCACC
TTTGCTCCAGTCAGCGTTACAACAGAAGTAAAATCTGTGCAAATGCACCATGAAGCTTTGAATGAAGCTCTTCCT
GGGGACAATATGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCATCGTGGCAACGTTGCTGGTGACAGC
AAAAATGACCCACCAATGGAAGCAGCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGT
CGCTTTACTGTTTCATGATATGAGACAGACACTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGA
GCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGCAATATTATCCCTAATACCTGCCACCCCA
CTCTTAATCAGTGGTGGAAAGACGGTCTCAGAACTGTTTGTTC AATTGGCCATTTAAGTTTAGTAGTAAAAGAC
TGGTTAATGATAATAATGCAACATAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACCTTTGGTTTTCTT
TTTCGCATGCAGCAGTTTTAAGTTATTAGTTTTTAAATCAGTACTTTTTTAAATGGAAACAACCTTGACCAAAAAT
TTGTCA.CAGAATTTTGAGACCCATTAAAAAAGTTTAATGAG

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FIGURE 278

MLEPSANMPWFKGWKVTHKDGNASGTMLLEALDCILPPTTRPTDKPLRLPLQDVYKIGGIGTVLVGRVETGILKPG
MVTTFAPVSVTTEVKSVEMHHEALNEALPGDNMGFNVKNVSVKDVHRGNVAGDSKNDPPMEAAGKPMCVESFSDY
PPLGRFTVHDMRQTLAVGVIAVDKKAAGAGKVTKSAQKAQKAK

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FIGURE 279

CACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAAGAAAAGACTCATATCAACATTGTCGTCATTG
GACACGTAGATTTCGGGCAAGTCCACCACTTCTGGCCATCTGATCTACAAATGCGGTGGCATCGACAAAAGAACA
TTGAAAAATTGCAGAAAGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGAGTCTTGGATAAACTGA
AAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTA
TCATTGATGCCCTTCTGGCATATACACTGGGTGTGAAACAATAATTGTTGATGTTAACAAAATGGATTCCACTG
AGCCACCCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAATCAGCACTTACATTAAAGGGTGACAACATGC
TGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCATAAGGATGGCAATGCCAGTGGAACCA
TGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTACCAAGCCGGCCAAATAAGCTCTGGCTA
TGCACCTGTATTGGATTGCCACACAGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCG
TTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGATGCTGCCATTGCTGATATGGTTCCTGG
CAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTACTGTTTCATGATATGAGACAGAC
ACTTGGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAA
AGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGG

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FIGURE 280

GCCAAAATGGGAAAAGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACT
TCTGGCCATCTGATCTACAAATGCGGTGGCATCGACAAAAGAACAATTGAAAAATTGCAGAAAGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCTGAGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGGTTGTGCTGTCCTAATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCATATACACTGGGTGTGAAACAATA
ATTGTTGATGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
ATCAGCACTTACATTAAGAAAATTGGCTACAACCCCAACACAGTAGCATTGTGCCAAATTCTTGAAGTCTGGTG
ATGCTGCCATTGCTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTACTGTTTCATGATATGAGACAGACACTTGCGGTGGGTG

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FIGURE 281

GTGGAGACTGGTATTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAGCGTTACAACAGAAGTAAATCT
GTCGAAATGCACCATGAAGCTTTGAATGAAGCTCTTCCTGGGGACAATATGGGCTTCAATGTCAAGAATGTGTCT
GTCAAGGATGTTTCATCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACT
GCTCAGGTGATTATCCTGAACCATCCGGGGCCAAATAAGCTCTGGCTATGCACCTGTATTGGATTGCCACACAGCT
CACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCT
AAATTCTTGAAGTCTGGTGATGCTGCCATTGCTGATATGGTTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCA
GACTATCCACCTTTGGGTCGCTTTACTGTTTCATGATATGAGACAGACACTTGCGGTGGGTGTCATCAAAGCAGTG
GACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAAGGCTAAATGAATATTATCC
CTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAGAACGGTCTCAGAACTGTTTGTTTCAATTGGCCATTTA
AGTTTAGTAGTAAATTTTGTGGACCACTTTGGTT

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FIGURE 282

GTTACTCAAAGACTACCTACTGCGTGGTGCTCCAAGTGAAATTCGTGAAGAATTAGAAAAGCAGCTTTATTCTTG
TATTGCTCTCAAAGTCACAGCAAATCAAATGGAAATGGAACATTCTTTGATACTAAATAACCTAAAAACATTATT
GTGGAAGAAAATTTCTACACTAATGACTCTTAGTTCAATTTGGACATAATTACCATTTTAAGAAACCTGCCACTT
TTAAAGAACAATTTTGAGCATTAAAAAAAATGGCTTCAAATTCGGGCCAGTTACACAAAACCTCTTCCCCCAG
GCCTGAGAAGCCATCAGTATGTGATCACTGAAGTAATGGCAGGTGTAGGATCAACAGGTCCCCAAGATGTCATT
CTGCCCTTTTAGAAGCCCTGTTACATCTCCGAAGTACATTCAATTTGTGTAACCTATTTTGAAGTACTTTAAAAACCA
ATGCTGTGAAAAGCTTCATTCCATAAACATCAACAGTGAGTGATTTGTAGATTTACCTTAGCCAAAATACCAATG
CTGGAAGCATTGTGTTTGATTGAAGCTGCTGTTCAACAAGAAAATTTATAAATTTACTAATGTCTTAGCATGGT
AAAGTTTGCACATTAACAGAAATTAAGACTGCAAAGCAGGTAAACTTGCTTCTTTATAAAACAGATGTTGGGTT
AATAGCATGGTTTACTGTATTAAAGACTTATACACCCATTTTAACTTCATTGACATCAAGTTATGTGTAGCT
TCACAATGGTTCAAGTGGCTTACTTCAAGAAATCTTATACTTGACAGTACACCAATTTTATTGACTAAAAATGGA
TGAACTTTCTTAAAGATTCAAAGGGGCCATCTTAGTATCACGCAGCTGACTGAGCCCTTCAAACCTGACATCTTA
AGGCCCAATCAAGATCCACATATCCTGATTTTGAAGTATGTGAAAGTGGGACTGTAAGTGCAAGACTAAAAATAA
TTATAGCAGACTTTTGTAGTAATAACTTTCCATTTTCAAACAGTATATCCTGTGGGCCAAAGGGCTATTTCTTAA
GAGGCATGTAAATGTATTTATTTATCTAATGTTTTTTTCCCCATGTAACTTGATATACAAGGTTTAGTATTTGC
TCCTCTTTTCATATTATTTTACACGTATACTCAGATTTGGCATGTACCTTTCAACATCTCCATAAAATTAACAC
CTTTTGGAGAAAAGAACCCTATTTTCTGCTCAAAGGTTTCGCCTACCTAAAGTGGAACATGTTAAAAATCTATG
TGACCATCACTGGACAGCTTCTCTCAAACCTTTCTTCAACGCCATGGATTAGCACCAGTTTTGTTTACTTTAA
GGTACTTTTCCCATTCATCATCTGGTTATAATAAATGGATGGAAGAAATATTTCCCACTGATGGTTGGTCTGTTG
CTTGCCAAATTTTGGGAGAGCTGTTTCATCATAACAATAAGGGATAATGACTCCTGTCAGGTAAACAGAAAGC
CCAAGAAATAACAACCTTTTCTTAAAAAGTTAGTTACACTTGTTTTCTTGAGAAAAAAACCTGTCAACTCCT
TTGCTTTTCCAAATATTTTCAAGGTATTTTCTATAAGGTTTATAAGAATAAGAGCTTAACACAGAAATAGTTGCT
GTTTATAAGTTTATTATCTATATCTGAAAAAATCATAGAAAATGCTGGGTTTAGCTCTCAGCAGCCGCTCCTG
AGCTCTGAGGAAGCTTGCCCTTCTTTGAGCTACCCGATCCTTCTTCTGAGCAAGGGACATTTTGGGACGGTTCCA
CCTACAAAAGATAGGAATATATATTTTAACTATAACTGAAGAGAATAGAATATTTAATTTAAATTTTAATA
AAATTTAATTTTGATAGAGAATATTTAAGACTTTGCAATCAGAAGGTTAAATAATCCAAGTTCAAATACATTTAC
TTATGTATGATCTTAAGCTAACTTTCCCAAACCCCAACTTCTGTGATGTCCTACTACCATAGGGCCAAAAGTCAA
ATAGAAGACATGTTAGATTCAAGTAATACCCTTCTAGGTATTTGCCCAAATGTTTTGAAATCAGTTTGTCCAAGA
GAGTGGCACTCCCATGTTTCAATGTCAGCACTATATATTAATAGCAACAGATAAATGGATAAAGGAAATGTGGTATA
CATATACATAATGGATTATTACCCAGTCTTTAAAAATGATGGAAATCTGTCAATTTGCAACATGAATGAAGTGGA
GAATATTGTGCTCAGTGAAATAAGCCAGGCACAAAAGACAAATACTTCATATTATAGAAATCTAAAACAATG
GAACTCACAGAAGCAGAGAGCAGAATGGTGGTTACAGAGGCTGGTGGGTGCAAAGAATGGGCAGATGATAGTCAA
GTATAAAATCTCCAACAGGAGGAGTATGATTTGTTTTAGTTCTATTGCACAGCATGATGAATATAGAATATCG
TACATTTTACAATTAAGAGAATAAATTTCAAATGTTGTTGCCACAAAGTGTTAAGTATTTGAGGTGAATATGTTA
AATACATTGATTTAATTACTATACATTGATTTGTGGGCCATCACATCACTTTATGCTTACATGTTTCAATTAAGTA
TTACTTTCTATTCCATTTAAAGATCAAAACATGAAAGATCAACAAAAGCAACTTGTCAGCCAATAAAAAAATGC
AGTAACCAGTACTTAGACTGTACTAGGATAGAAAGAACCACCTCAGTAGTGTCTGAGGCTAACACATTTCCATCA
CCACAGTTACTTTTGCAAACCTGGTTCCCTTCGCTTCTGCCACATCACGCAGAGCTAGTGATCGAGTTTGCACAA
TTACACCAACAGTCTGCCCCACGTGGGAACCATTTCCCAACCTGTTTTCTTGAAAAGACAAAAAAGACGACAT
ACCTCTTCTTTTAACTTCTTTCTTGGGCTTCTTTTCATAGACTGGATTCTCTCGTATAGCAGCATGAGCTTTCT
TATACATCTCCTCCATCTGAAACAAAGGAAAGCAAACAGTACTTGGTTTCAATTCATGTGCCCTACTATATTAAT
GCAACCATAACTTATCTTGTCTTCTAAGCCAGATTCTCAAAGGAACTAACTAAATCAATGTTGGTAAACACT
TTAAGTTCTAAATGTAAGTCACTTTTCTTAACAAATTTCCCAATTTTACCTTATGCAATGTGAATTATCACTAC
AGAAGTCCATCTTACTCAAGAAAAAATCAGGCCAGGTGTGGTGGTTTATGCCTGTAATCTCAAGCACTTTGGGA
GTCTGAAGTGGGAGGATCACTTCAGCCCAGGAGTTTGAGACCAGCTAAGGCAACACAGTGAGACCTGTCTCCATA
AAAAAATAATTAGCCAGGTGGCAATTATTAATGGTGGCATGCACCTGTAGTCCCAGCTACAGGACTACACGTGA
GTCCAGGAGGTCAAGGCTGCAGTGGCACAATCACAGCTCACTGGACCCAGCCTAGATGACAGAATGAGACCTCA
TCTTACCAAAAATTAAAAAAAAAAAAAAAAAAATTAGCAGGG

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FIGURE 283

MEFSPCKLDIQGLVFAPLSYYFHTYTTQIWHVFPFNISIKLNTFWRKEPLFSAQRFRLPKVEHVKNLCDHHWTAFSQ
NEPSTPWISTSFVYFKVLFPFIWL

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FIGURE 284

CCTAGCGCCGCTGGGCCTGCAGGTCTCTGTCTGAGCAGCGGACGCCGGTCTCTGTTCCGCAGGATCGGGGTTTGTTA
AAGTTGTTAAGAATAAGGCCTACTTTAAGAGATACCAAGTGAAATTTAGAAGACGACGAGAGGGTAAACTGATT
ATTATGCTCGGAAACGCTTGGTGATACAAGATAAAAATAAATACAACACACCCAAATACAGGATGATAGTTCGTG
TGACAAACAGAGATATCATTGTGTCAGATTGCTTATGCCCCGTATAGAGGGGGATATGATAGTCTGCGCAGCGTATG
CACACGAACTGCCAAAATATGGTGTGAAGGTTGGCCTGACAAATTATGCTGCAGCATATTGTACTGGCCTGCTGC
TGGCCCGCAGGCTTCTCAATAGGTTTGGCATGGACAAGATCTATGAAGGCCAAGTGGAGGTGACTGGTGATGAAT
ACAATGTGGAAGCATTGATGGTCAGCCAGGTGCCTTCACCTGCTATTTGGATGCAGGCCTTGCCAGAACTACCA
CTGGCAATAAAGTTTTTGGTGCCCTGAAGGGAGCTGTGGATGGAGGCTTGTCTATCCCTCACAGTACCAAACGAT
TCCCTGGTTATGATTCTGAAAGCAAGGAATTTAATGCAGAAGTACATCGGAAGCACATCATGGGCCAGAATGTTG
CAGATTACATGCGCTACTTAATGGAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCTCAATACATAAAGAACA
GCGTAACTCCAGACATGATGGAGGAGATGTATAAGAAAGCTCATGCTGCTATACGAGAGAATCCAGTCTATGAAA
AGAAGCCCAAGAAAGAAGTTAAAAAGAGAGGTGGAACCGTCCCAAATGTCCCTTGCTCAGAAGAAGGATCGGG
TAGCTCAAAGAAGGCAAGCTTCCTCAGAGCTCAGGAGCGGGCTGCTGAGAGCTAAACCCAGCAATTTTCTATGA
TTTTTTCAGATATAGATAATAAACTTATGAACAGCAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 285

MGFVKVVKNKAYFKRYQVKFRRRREGKTDYYARKRLVIQDKNKYNTPKYRMIVRVNTRDIICQIAYARIEGDMIV
CAAYAHELPKYGVKVGLTNYAAAYCTGLLLARRLLNRFMGMDKIYEGQVEVTGDEYNVESIDGQPGAFTCYLDAGL
ARTTTGNKVFGALKGAVDGGLSIPHSTKRFPGYDSESKEFNAEVHRKHIMGQNVADYMRYLMEEDEDAYKKQFSQ
YIKNSVTPDMMEEMYKKAHAAIRENFPVYEKKPKKEVKKRWNRPKMSLAQKKDRVAQKKASFLRAQERAAES

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FIGURE 286

ATGGTAATGTTAAGACAAATCTTGGGAGAAACATTTATCAATTCCAATACCTCTCTCCAC⁺CCAATACTGTATG
CTCTTGGAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCTCAATACATAAAGAACAGTGTA⁺ACTCCAGACATG
ATGGAGGAGATGTATAAGAAAGCTCATGCTGCTGTACCAGAGAATCCGGTCTATGAAAAGAAGCCCAAGAAAGAA
GTTAAAAAGAAGAGGTGGAACCGTTCCAAAATGTCCCTTGCTCAGAAGAAGGATTGGGTAGCTCAAAAGAAGGCA
AGCTTCCTCAGAGCTTAG

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FIGURE 287

MVNVKTNLGRNIYQFQYLSPPQYCMLEDEDEAYKKQFSQYIKNSVTPDMMEEMYKKAHAAPENPVYEKKPKKE
VKKKRWNRSKMSLAQKKDWVAQKKASFLRA

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FIGURE 288

GCTGACTCCAGTGTCCCGAGAGGCGCCGCTTCTTCCGCTTTCTCGTCAGGCTCCTGCAACCCCAGGCATGAACCA
AGGTTTCTGAACTACTGGGCGGGAGCCAACGTCTCTTCTTTCTCCCGCTCTGGCGGAGGCTTTGTGCTGCGGGC
TGGGCCCCAGGGTGTCCCCCATGCGCGGGGCGCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGGCGGCCAGA
TCCTGAGAGTCTCTACGGCCTTGAGCTGTCTCCTAGGCCTCCCCTTGCGGGTGCAGAAGATCCGAGCCGGCCGGA
GCACGCCAGGCCTGAGGCCTCAACATTTATCTGGACTGGAAATGATTGAGATTTGTGTGATGGGCAACTGGAGG
GGGCAGAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGATACCA
AGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCTCCATCAGAAC
TTCATTTGAAAGGTGGAATAATGCTGAAATGGCACCACAGATCGATTATACAGTGATGGTCTTCAAGCCAATTG
TTGAAAAATTTGGTTTCATATTTAATTGTGACATTAAAACAAGGGGATATTACCCAAAAGGGGGTGGTGAAGTGA
TTGTTTGAATGTCACCAGTTAAACAATTGAACCTATAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATG
GAAGAGCTTTCGTTGCTGGTGTGTTTGCCATTTAAAGTAGCAAAGATATGGCAGCGGCAGCAGTTAGATGCATCA
GAAAGGAGATCCGGGATTTGTATGTTAACATCCAGCCTGTTCAAGAACCTAAAGACCAAGCATTGGAATGGAA
ATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTGTTGCTGGATCATCGCTTGGTAAACGAGGTGTAA
ATGCAGACAAAGTTGGAATTGAAGCTGCCGAAATGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGT
ATCTGCAAGACCAGCTGATTGTTTTTCATGGCATTAGCCAATGGAGTTTCCAGAATAAAAACAGGACCAGTTACAC
TCCATACGCAAACCGCGATACATTTTGTGTAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATG
AAGAAGACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAAATCTATAGAGTA
TTTGCTCTTAAATGATACCTCATTGATATATTGCACTATTCATAAATACTATAAAATAATGACTAGGAAGTAA
CTTATTAAAGGCTATGACTTAAATTTGAAGATGAAGTACAGTGTCTAGGTTTGCTGAGAAGGCTTCATTAAATT
AATCTCATTGTAATATCTCCTGAGAGATGGACAATGAAATATCAGTTGGTGGATATGTGTGATAGCTGATTTC
ATATTGAAGTATTGAAATAAAATATTCTTTACACCTGAG

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FIGURE 289

MAGPRVEVDGSIMEGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHLSGLEMIRDLC DGQLEGAEIGST
EITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLF AASPSELHLKGGTNAEMAPQIDYTMVFKPIVEKFGFI
FNCDIKTRGYYPKGGGEVIVRMSPVKQLNPINLTERGCVTKIYGRAFVAGVLPFKVAKDMAAAVRCIRKEIRDL
YVNIQPVQEPKDQAFGNGNGIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEMLLANLRHGGTVDEY LQDQLI
VFMALANGVSRIKTGPVTLHTQTAIHF AEQIAKAKFIVKKSEDEEDA AKDTYII ECQGIGMTNPNL

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FIGURE 290

GCTTTTCCTTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGGTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAATTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACC GGATCCAGGCAGCCTTCCGGGAGCCACGGCTTGTTGTGGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACAC
AGATTCTCCTCTGTGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGTGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTGTACTTCGACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGA
GGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTCAGTGTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTGAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 291

MSGALDVLQMKEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAGRAIVAIENPADVSV
ISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNRIQAAREPRLVVVTDPRADHQPLTEASYVNLPTIALCNTD
SPICYVDIAIPCNNKGTHSVGLMWWMLAREVLRMCGTISREHPWEVMPDLYFDRDPREEIEKEEQAAAEKAVTKEE
FQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFTEDWSAQPATEDWSAAPTQAQATEWVGATTDWS

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FIGURE 292

GGCACGAGGAAGAATCAGGAGCTTAGGATGTATTAACACCAACTCATTAATATACTAACCGGACAATGTTCTACA
AACAATTCTACATTGTAAAGGACTGGATTGGCACAAAATAAAATAATTTTATTTTATTCAGCTTATAATATGACT
CGATGGAGGAAAATTTGATAAGCATGAGAGAAGACCATTCTTTTCATGTTTCGTTACAGAATGGAAGCTTCTTGCC
TAGAGCTGGCCTTGGAAGGGGAACGTCTATGTAAATCAGGAGACTGCCGCGCTGGCGTGTCAATTCCTTTGAAGCTG
CAGTTCAAGTTGGAACCTGAAGACCTAAAAACACTTAGCGCTATTTACAGCCAGTTGGGCAATGCTTATTTCTATT
TGCATGATTATGCCAAAGCATTAGAATATCACCATCATGATTTAACCCCTTGCAAGGACTATTGGAGACCAGCTGG
GGGAAGCGAAAGCTAGTGGTAATCTGGGAAACACCTTAAAGTTCTTGGAATTTTGACGAAGCCATAGTTTGTT
GTCAGCGACACCTAGATATTTCCAGAGAGCTTAATGACAAGGTGGGAGAAGCAAGAGCACTTTACAATCTTGGGA
ATGTGTATCATGCCAAAGGGAAAAGTTTGGTTGCCCTGGTCCCCAGGATGTAGGAGAATTTCCAGAAGAAGTGA
GAGATGCTCTGCAGGCAGCCGTGGATTTTTATGAGGAAAACCTATCATTAGTGACTGCTTTGGGTGACCGAGCGG
CACAAGGACGTGCCCTTTGGAATCTTGGAACACACATTACCTCCTTGGAACCTTCAGGGATGCAGTTATAGCTC
ATGAGCAGCGTCTCCTTATTGCAAAAGAATTTGGAGATAAAGCAGCTGAAAGAAGAGCATATAGCAACCTTGGA
ATGCATATATATTTCTTGGTGAATTTGAACTGCCTCGGAATACTACAAGAAGACACTACTGTTGGCCCGACAGC
TTAAAGACCGAGCTGTAGAAGCACAGTCTTGTTACAGTCTTGGAATAACATATACTTTACTTCAAGACTATGAAA
AGGCCATTGATTATCATCTGAAGCACTTAGCAATTGCTCAAGAGCTGAATGATAGAATTGGTGAAGGAAGAGCAT
GTTGGAGCTTAGGAAATGCATACACAGCACTAGGAAATCATGATCAAGCAATGCATTTTGCTGAAAAGCACTTGG
AAATTTCAAGAGAGGTTGGGGATAAAAGTGGTGAACCTAACAGCAGCACTTAATCTCTCAGACCTTCAAATGGTTC
TTGGTCTGAGCTACAGCACAAATAACTCCATAATGTCTGAAAATACTGAAATTGATAGCAGTTTGAATGGTGTAC
TCCCCAAGTTGGGACGCCGGCATAGTATGGAAAATATGGAACCTTATGAAGTTAACACCAGAAAAGGTACAGAACT
GGAACAGTGAAATCTTGCTAAGCAAAACCTCTTATTGCCAAACCTTCTGCAAAGCTACTCTTTGTCAACAGAC
TGAAGGGGAAAAAATACAAAACGAATTCCTCCACTAAAGTTCTCCAAGATGCCAGTAATTCATTGACCACCGAA
TTCCAAATTCAGAGGAAAATCAGTGCAGATACTATTGGAGATGAAGGGTTCTTTGACTTATTAAGCCGATTTT
AAAGCAATAGGATGGATGATCAGAGATGTTGCTTACAAGAAAAGAACTGCCATACAGCTTCAACAACAACCTTCTT
CCACTCCCCCTAAAATGATGCTAAAAACATCATCTGTTTCTGTGGTATCCCCCAACACGGATGAGTTTTTAGATC
TTCTTGCCAGCTCACAGAGTCGCCGTCTGGATGACCAGAGGGCTAGTTTCAGTAATTTGCCAGGGCTTCGTCTAA
CACAAAACAGCCAGTCGGTACTTAGCCACCTGATGACTAATGACAACAAAGAGGCTGATGAAGATTTCTTTGACA
TCCTTGTAATGTCAAGGATCCAGATTAGATGATCAAAGATGTGCTCCACCACCTGCTACCACAAAGGGTCCGA
CAGTACCAGATGAAGACTTTTTTACGCTTATTTTACGGTCCCAGGGAAAAGAGAATGGATGAACAGAGAGTTCTTT
TACAAAGAGATCAAAAACAGAGACACTGACTTTGGGCTAAAGGACTTTTTGCAAAATAATGCTTTGTTGGAGTTTA
AAAATTCAGGGAAAAAATCGGCAGACCATTAGTTACTATGGATTTATTTTTTTTCTTTTCAAACACGGTAAGGAA
ACAATCTATTACTTTTTTCTTAAAAGGAGAATTTATAGCACTGTAATACAGCTTAAAATATTTTTAGAAATGATG
TAAATAGTTAA

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FIGURE 293

MREDHSFHVRYRMEASCLELALAGERLCKSGDCRAGVSFFEAAVQVGTEDLKTLSTAIYSQLGNAYFYLDYAKAL
EYHHHDLTLARTIGDQLGEAKASGNLGNLTKVLGNFDEAIVCCQRHLDISRELNDKVGEARALYNLGNVYHAKGK
SFGCPGPDVGEFPPEVRDALQAAVDIFYEENLSLVTALGDRAAQGRAFGNLGNTHYLLGNFRDAVIAHEQRLLIA
KEFGDKAAERRAYSNLGNAYIFLGEFETASEYYKKTLLARQLKDRAVEAQSCYSLGNTYTLLQDYEKADYHLK
HLAIAQELNDRIGEGRACWSLGNAYTALGNHDQAMHFAEKHLEISREVGDKSGELTARLNLSDLQMVGLGLSYSTN
NSIMSENTEIDSSLNGVLPKLGRRHSMENMELMKLTPEKVQNNWSEILAKQKPLIAKPSAKLLFVNRLKGKKYKT
NSSTKVLQDASNSIDHRIPNSQRKISADTIGDEGFFDLLSRFQSNRMDDQRCCLQEKNCHTASTTTSSTPPKMML
KTSSVPVVSPNTDEFLDLLASSQSRRLDDQRASFSLPGLRLTQNSQSVLSHLMTNDNKEADEDFFDILVKCQGS
RLDDQRCAPPPATTKGPTVPDEDFSLILRSQGKRMDEQRVLLQRDQNRDTEFGLKDFLQNNALLEFKNSGKKSA
DH

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FIGURE 294

AAGCAGCCTGAGGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCACGAAATCATGCAAATC
AAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACG
AAAAGCCACGAAGTATCTGAAAGATGTCACTTTACAGAAACAGTGTGTACCATTCCGACGTTACAATGGTGGAGT
TGGCAGGTGTGCGCAGGCCCTGCACATGCTTAAAAACACAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGA
TTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTACAGAGCTCATGGTCG
GATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTTCCTAAACC
AGAAGAGGAGGTTGCCCAGAAGAAAAGGATATCCAGAAGAACTGAAGAAACAAAACTTATGGCACGGGAGTA
AATTCAGCAT

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FIGURE 295

GCAGGCTCTGCCTGTGGCCACTAGCAGAGAAGCTGCTGTCCTTCCACCACCAGCACCGGACCACCTGCTCCAAGA
CCAGCCTCCTGGGGGGACCAGGCACCCGGCCTTCACTGGCACCCAGGGAGCCGTCCTCAGCAGCGTCAACATGTC
AAGGCCCAGCAGCAGAGCCATTTACTTGCACCCGGAAGGAGTACTCCCAGAACCTCACCTCAGAGCCCCACCTCCT
GCAGCACAGGGTGGAGCACTTGATGACATGCAAGCAGGGGAGTCAGAGAGTCCAGGGGCCCCGAGGATGCCTTGCA
GAAGCTGTTTCGAGATGGATGCACAGGGCCGGGTGTGGAGCCAAGACTTGATCCTGCAGGTCAGGGACGGCTGGCT
GCAGCTGCTGGACATTGAGACCAAGGAGGAGCTGGACTCTTACCGCCTAGACAGCATCCAGGCCATGAATGTGGC
GCTCAACACATGTTCCCTACAACCTCCATCCTGTCCATCACCGTGCAGGAGCCGGGCCTGCCAGGCACTAGCACTCT
GCTCTTCCAGTGCCAGGAAGTGGGGGCAGAGCGACTGAAGACCAGCCTGCAGAAGGCTCTGGAGGAAGAGCTGGA
GCAAAGACCTCGACTTGGAGGCCTTCAGCCAGGCCAGGACAGATGGAGGGGGCCTGCTATGGAAAGGCCGCTCCC
TATGGAGCAGGCACGCTATCTGGAGCCGGGGATCCCTCCAGAACAGCCCCACCAGAGGACCCTAGAGCACAGCCT
CCCACCATCCCCAAGGCCCTGCCACGCCACACCAGTGCCCGAGAACCAAGTGCCTTTACTCTGCCTCCTCCAAG
GCGGTCTCTTCCCCCGAGGACCCAGAGAGGGACGAGGAAGTGCTGAACCATGTCCTAAGGGACATTGAGCTGTT
CATGGGAAAGCTGGAGAAGGCCCAGGCAAAGACCAGCAGGAAGAAGAAATTTGGGAAAAAACAAGGACCAGGG
AGGTCTCACCCAGGCACAGTACATTGACTGCTTCCAGAAGATCAAGCACAGCTTCAACCTCCTGGGAAGGCTGGC
CACCTGGCTGAAGGAGACAAGTGCCCCCTGAGCTCGTACACATCCTCTTCAAGTCCCTGAACCTTCATCCTGGCCAG
GTGCCCTGAGGCTGGCCTAGCAGCCCCAAGTGATCTCACCCCTCCTCACCCCTAAAGCTATCAACCTGCTACAGTC
CTGTCTAAGCCCACCTGAGAGTAACCTTTGGATGGGGTTGGGCCCAGCCTGGACCACTAGCCGGGCCGACTGGAC
AGCGGATGAGCCCCCTGCCCTACCAACCCACATTCTCAGATGACTGGCAACTTCCAGAGCCCTCCAGCCAAGCACC
CTTAGGATACCAGGACCCTGTTTCCCTTCGGCGGGGAAGTCATAGGTTAGGGAGCACCTCACACTTTCTCAGGA
GAAGACACACAACCATGACCCTCAGCCTGGGGACCCCAACTCCAGGCCCTCCAGCCCCAAACCTGCCAGCCAGC
CCTGAAAATGCAAGTCTTGACGAGTTTGAAGCTAGGAACCCACGGGAAGTACTGTGGTCCAGGGAGAGAAGCT
GGAGGTTCTGGACCACAGCAAGCGGTGGTGGCTGGTGAAGAATGAGGCGGGACGGAGCGGCTACATTCCAAGCAA
CATCCTGGAGCCCCTACAGCCGGGGACCCCTGGGACCCAGGGCCAGTCACCCCTCTCGGGTTCCAATGCTTCGACT
TAGCTCGAGGCCTGAAGAGGTACAGACTGGCTGCAGGCAGAGAACTTCTCCACTGCCACGGTGAGGACACTTGG
GTCCCTGACGGGGAGCCAGCTACTTCGCATAAGACCTGGGGAGCTACAGATGCTATGTCCACAGGAGGCCCCACG
AATCCTGTCCCGGCTGGAGGCTGTGAGAAGGATGCTGGGGATAAGCCCTTAGGCACCAGCTTAGACACCTCCAAG
AACCAGGCCCCGCTGATGCAAGATGGCAGATCTGATACCCATTAGAGCCCCGAGAATTCCTCTTCTGGATCCCAG
TTTGCAGCAAACCCACACCCAGCTCACACAGCAAAAACAATGGACAGGCCAGAGGCTGAAGCAAACAGTGTC
CCTTCTGGCTGTGTTGGAGCCTCCCCAGTAACCACCTATTTATTTTACCTCTTCCCAAACCTGGAGCATTTATG
CCTAGGCTTGTCAGAATCTGTTTCAGTCCCTCTCCTTCTCAATAAAAGCATCTTCAAGCTTGT

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FIGURE 296

GGGAGAAAGCCTGTTGCGTGGAAGATAAGGCGGCGCGGGAAGTGGACACAGGGTGGGCTGGAGCTCAGATCTAAC
TGGACTCTCGCTCCTGCTGGCTGGACATGGAGGATTTGGAGGAAGATGTAAGGTTTATTGTGGATGAGACCTTGG
ACTTTGGGGGGCTGTACCATCTGACAGCCGTGAGGAGGAAGACATAACAGTGTGGTGACTCCAGAGAAACCAC
TTCGACGGGGCCTCTCCACCGAAGTGACCCAAATGCAGTGGCACCTGCCCCCAGGGTGTGAGGCTCAGCCTAG
GCCCCCTCAGTCCAGAGAAGCTGGAGGAGATCCTCGATGAGGCCAACCGGCTGGCCGCTCAGCTGGAGCAGTGTG
CCCTGCAGGATCGGGAGAGCGCAGGCGAGGGCCTGGGGCCTCGCCGAGTGAAGCCAGTCTCGGCGGGAGACCT
TTGTGCTGAAGGATAGTCCTGTCCGAGACCTGCTGCCCCTGTGAACTCTTTGACGCGGAGCACCCCTCCCCAA
GCAGCCTGACGCCTCGACTCCGGAGTAATGATAGGAAGGGGTGAGTCAGGGCTCTCCGGGCTACATCTGGAAAGA
GGCCCTCCAACATGAAGAGGGAGTCACCCACTTGCAATCTGTTCCCTGCATCCAAAAGCCCAGCATCTTCTCCTC
TTACCCGATCGACTCCCCCAGTCCGGGGGAGAGCCGGGCCAGTGGGAGAGCAGCAGCCAGCCACCCACCCCA
TCAGATCCGTCCTGGCCCCACAGCCTTCTACCAGCAACTCTCAACGCCTGCCCCGGCCGCAGGGAGCAGCTGCTA
AATCTTCCAGTCAACTGCCCATTCCCTCGGCCATCCCCAGGCCTGCCAGCCGAATGCCACTCACCAGCCGGAGTG
TGCCACCTGGCAGAGGTGCCCTACCTCCGGATTCTCTGTCAACTCGAAAAGGGCTTCCAAGACCAAGCACTGCAG
GACACAGAGTGCGGGAAAGTGGACACAAGGTTCTGTTTCCAGCGACTAAATCTTCTGTCTATGGGTGCCACTC
GCAGCAATCTGCAGCCCCCAGGAAAGTGGCAGTCCCAGGACCTACCAGGTAAAGAGATCAGGACAGCAAGCAAG
ACTTCAGTAGCAAACCACTACAGTCAGTACCTGGACTCGCCTCTACCCAGCAGACCCTGACTCCAGCAGATTCTG
GCCAGGGACAGGAGGAAGAGATGCCACCAGGGCTGGTCTCCAGGAGTAGAGACCATGGGAAATGGGGTGGATT
AGGATTGAGCTGGAGAAGACTTAAACTCTCTGGGTTGAAAGAAGATTAGGGGAAAAGAGGTCACCTTCCAGCAGT
GAAATGAACAAATAGAAGATGAGAAGTACAGGCAAGTGGTTTGTCTTTATCCACCCCCACTGTTGTGGTCAGCCC
CAGAGAATTTTATCTTCTTCTTGGCATTGGTTCACTGGACATTTCCACGTGAGCGGCCTCCGTAGCTAACCTCC
CTGCCCTCTGAGGAGCCATCTTCTGAATCGCATTCTCTACTGGACTCTGGCCTGCTTGGAGAGGTGGCAGCAGG
CACCTGGTCTTCAGAAATTGTTTCTGTGAATTCTGTGACTCTAATAGGCCAGTTTGTGATAAGCTTACTCTAT
GAGTCTTCATTTTTCTAAAATAAAGTGAATGTATTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 297

MEDLEEDVRFIVDETLDGGLSPSDSREEEDITVLVTPEKPLRRGLSHRSDPNAVAPAPQGVRLSLGPLSPEKLE
EILDEANRLAAQLEQCALQDRESAGEGLGPRRVKPSPRRETFLVKDSPVRDLETVNSLTRSTPSPSSLTPRLRS
NDRKGSVRALRATSGKRPSNMKRESPTCNLFPASKSPASSPLTRSTPPVRGRAGPSGRAAAASPPTPIRSVLAPQP
STSNSQRLPRPQGAAAKSSSQLPISAI PRPASRMPLTSRSVPPGRGALPPDSLSTRKGLPRPSTAGHRVRESGH
KVPVSQRLNLPVMGATRSNLQPPRKVAVPGPTR

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FIGURE 298

GCAGTGCGGCGGTACAGGCTGAGTGCTGCGGCGCGATCCTTGCTTCCCTGAGCGTTGGCCCGGGAGGAAAGAAG
ATGGTGCTGGATCTGGATTTGTTTCGGGTGGATAAAGGAGGGGACCCAGCCCTCATCCGAGAGACGCAGGAGAAG
CGCTTCAAGGACCCGGGACTAGTGGACCAGCTGGTGAAGGCAGACAGCGAGTGGCGACGATGTAGATTTTCGGGCA
GACAACTTGAACAAGCTGAAGAACCTATGCAGCAAGACAATCGGAGAGAAAATGAAGAAAAAGAGCCAGTGGGA
GATGATGAGTCTGTCCCAGAGAATGTGCTGAGTTTCGATGACCTTACTGCAGACGCTTTAGCTAACCTGAAAGTC
TCACAAATCAAAAAGTCCGACTCCTCATTGATGAAGCCATCCTGAAGTGTGACGCGGAGCGGATAAAGTTGGAA
GCAGAGCGGTTTGAGAACCTCCGAGAGATTGGGAACCTTCTGCACCTTCTGTACCCATCAGTAACGATGAGGAT
GTGGACAACAAAGTAGAGAGGATTTGGGGTGATTGTACAGTCAGGAAGAAGTACTCTCATGTGGACCTGGTGGTG
ATGGTAGATGGCTTTGAAGGCGAAAAGGGGGCCGTGGTGGCTGGGAGTCGAGGGTACTTCTTGAAGGGGGTCTCTG
GTGTTCCCTGGAACAGGCTCTCATCCAGTATGCCCTTCGCACCTTGGGAAGTCGGGGCTACATTCCCATTTATACC
CCCTTTTTTCATGAGGAAGGAGGTTCATGCAGGAGGTGGCACAGCTCAGCCAGTTTGATGAAGAACCTTTATAAGGTG
ATTGGCAAAGGCAGTGAAGAAGTCTGATGACAACTCCTATGATGAGAAGTACCTGATTGCCACCTCAGAGCAGCCC
ATTGCTGCCCTGCACCGGGATGAGTGGCTCCGGCCGGAGGACCTGCCCATCAAGTATGCTGGCCTGTCTACCTGC
TTCCGTGAGGAGGTGGGCTCCCATGGCCGTGACACCCGTGGCATCTTCCGAGTCCATCAGTTTGAGAAGATTGAA
CAGTTTGTGTACTCATCACCCCATGACAACAAGTCATGGGAGATGTTTGAAGAGATGATTACCACCGCAGAGGAG
TTCTACCAGTCCCTGGGGATTCCCTTACCACATTGTGAATATTGTCTCAGGTTCTTTGAATCATGCTGCCAGTAAG
AAGCTTGACCTGGAGGCCTGGTTTCCGGGCTCAGGAGCCTTCCGTGAGTTGGTCTCCTGTTCTAATTGCACGGAT
TACCAGGCTCGCCGGCTTCGAATCCGATATGGGCAAACCAAGAAGATGATGGACAAGGTGGAGTTTGTCCATATG
CTCAATGCTACCATGTGCGCCACTACCCGTACCATCTGCGCCATCCTGGAGAACTACCAGACAGAGAAGGGCATC
ACTGTGCCTGAGAAATTGAAGGAGTTCATGCCGCCAGGACTGCAAGAACTGATCCCCTTTGTGAAGCCTGCGCCC
ATTGAGCAGGAGCCATCAAAGAAGCAGAAGAAGCAACATGAGGGCAGCAAAAAGAAAGCAGCAGCAAGAGACGTC
ACCCTAGAAAACAGGCTGCAGAACATGGAGGTACCGATGCTTGAACATTCTGCCTCCCTATTTGCCAGGCTTT
CATTTCTGTCTGCTGAGATCTCAGAGCCTGCCCAACAGCAGGGAAGCCAAGCACCCATTATCCCCCTGCCCCCA
TCTGACTGCGTAGCTGAGAGGGGAACAGTGCCATGTACCACACAGATGTTTCTGTCTCCTCGCATGGGCATAGGG
ACCCATCATTGATGACTGATGAAACCATGTAATAAAGCATCTCTGGGGAGGGCTTAGGACTCTTCTCAGTCTTC
TTCCCCGGGCTTGAACCCCGAAA

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FIGURE 299

MVLDDLDFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCFRADNLNKLKNLCSKTIGKMKKKKEPVG
DDESVPENVL SFDDLTADALANLKVSQIKKVRLIDEAILKCD AERIKLEAERFENLREIGNLLHPSVPISNDED
VDNKVERIWGDCTVRKKYSHVDLVVMVDGFEGEKGAVVAGSRGYFLKGVLVFLEQALIQYALRTLGSRGYIPIYT
PFFMRKEVMQEV AQLSQFDEELYKVIGKGSEKSDDNSYDEKYLIATSEQPIAALHRDEWLRPEDLP IKYAGLSTC
FRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITTAEEFYQSLGIPYHIVNIVSGSLNHAASK
KLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMDKVEFVHMLNATMCATTRTICAILENYQTEKGI
TVPEKLKEFMPPGLQELIPFVKPAPIEQEPSKKQKKQHEGSKKKAAARDVTLENRLQNMEVTD A

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FIGURE 300

CAGAGTGCCCTTTCTCCCCGCTCTTCCCCCTCCCGGGAGCTGCCAGTACTTGACGTGGCGTCACCGCCCTCTAC
CCTCGCTTTTGCCTGCGTGTTTGCCTACAGCGGAGGTGGCGGCGCGGGCAGGTCGGAGCTCGGAGCTGCTGCTTCT
GGTTCTCTTGTGGCCACCGTCGCTGTCCGGCTGCCCTTGGGCTGCCGAACAGACAAGGCGTGGGCCACAGCACCTC
AGAAGCCGACGCAGCTCGACGCAGGGGCCGGCAGGAGGGTGGGCGATCGCGTGTGGAGGGCGCCGCGCGGGCAG
GCGGGCGGGCGCCAGAGGGGGAAAGAGGCGGGGGCGGCGGGTCAAGCCGTGGCCGGGCGGGCGGGGAATGTCGA
TGCCTGACGCGATGCCGCTGCCCGGGTCCGGGAGGAGCTGAAGCAGGCCAAGGAGATCGAGGACGCCGAGAAAGT
ACTCCTTCATGGCCACCGTCACCAAGGCGCCCAAGAAGCAAATCCAGTTTGCTGATGACATGCAGGAGTTTACCA
AATCCCCACCAAACTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCTCCACTGACAGCTACAGTTTCAG
CTGCATCTACACAGATAGCTCTGATGATGAGGTTTCTCCCCGAGAGAAGCAGCAAACCAACTCCAAGGGCAGCA
GCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAATTTGGACGCCGGGAGATTGAGATTGCAGAGCAAGACATGT
CTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGGAGAAGCCCTTGGCTGGTGCTAAAATAGTGGGCTGTACAC
ACATCACAGCCCAGACAGCGGTGTTGATTGAGACACTCTGTGCCCTGGGGGCTCAGTGCCGCTGGTCTGCTTGTA
ACATCTACTCAACTCAGAATGAAGTAGCTGCAGCACTGGCTGAGGCTGGAGTTGCAGTGTTGCTTGGAGGGCG
AGTCAGAAGATGACTTCTGGTGGTGATTGACCGCTGTGTGAACATGGATGGGTGGCAGGCCAACATGATCCTGG
ATGATGGGGGAGACTTAACCCACTGGGTTTATAAGAAGTATCCAAACGTGTTTAAGAAGATCCGAGGCATTGTGG
AAGAGAGCGTGACTGGTGTTACAGGCTGTATCAGCTCTCCAAAGCTGGGAAGCTCTGTGTCCGGCCATGAACG
TCAATGATTCTGTTACCAACAGAAGTTTGATAACTTGTACTGCTGCCGAGAATCCATTTTGGATGGCCTGAAGA
GGACCACAGATGTGATGTTTGGTGGGAAACAAGTGGTGGTGTGTGGCTATGGTGAGGTAGGCAAGGGCTGCTGTG
CTGCTCTCAAAGCTCTTGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCCTGCATGG
ATGGGTTTCAAGGTGGTAAAGCTAAATGAAGTCATCCGGCAAGTCGATGTGTAATAACTTGCACAGGAAATAAGA
ATGTAGTGACACGGGAGCACTTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATGGGCCACTCCAACACAG
AAATCGATGTGACCAGCCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGTTCTCAGGTGGACCATGTCATCT
GGCCAGATGGCAAACGAGTTGTCTCCTGGCAGAGGGTCTGCTACTCAATTTGAGCTGCTCCACAGTTCCCACCT
TTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGATAGAACTCTATAATGCACCCGAGGGGCGATACA
AGCAGGATGTGTACTTGCTTCCTAAGAAAATGGATGAATACGTTGCCAGCTTGCACTCTGCCATCATTTGATGCCC
ACCTTACAGAGCTGACAGATGACCAAGCAAATATCTGGGACTCAACAAAAATGGGCCATTCAAACCTAATTATT
ACAGATACTAAATGGACCATACTACCAAGGACCAGTCCACCTGAACCACACACTCTAAAGAAATATTTTTTAAGAT
AACTTTTATTTTCTTCTTACTCCTTTCCTCTTGATTTTTTTCCTATAATTTTATTCTTGTTTTTTCATCTCATT
TCCAAGTTCTGCAGACCACACAGGAACTTGCTTCATGGCTCTTTAGATGAAATAGAAGTTCAGGGTCCCTCACTC
TAGTCACTAAAGAAGGATTTTACTCCCCCAGCCAGAAAGGTGATTCTTCTCTTTACCATTCTGGGGACTTTAG
TCTTAATTAGGTACCTTATTAACAGGAAATGCTAAGGTACCTTCTCTGTGGAACAATCTGCAATGTCTAAATCGC
CTTAAAAGAGCCCATTTCTTAGCTGCTGAAATCAGTGCTCTTTCACTTCTTCAGAGAAGCAGGGATGGTACCTAC
CCGGCAGGTAGGTTAGATGTGGGTGGTGATGTTAATTTCCCTTAGAAGTTCCAAGCCCTGTTTCTGCGTAAAG
GTGGTATGTCCAGTTCAGAGATGTGTATAATGAGCATGGCTTGTTAAGATCAGGAGGCCCACTTGGATTTATAGT
ATAGCCCTTCTCTCACTCCCACCAGACTTGCTCATTTTTTCGAGTTTTTAACTAGACTACACTCTATTTGAGTTTA
ATTTTGTCTCTAGGATTTATTTCTGTTGTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 301

MSMPDAMPLPGVGEELKQAKEIEDAEKYSFMATVTKAPKKQIQFADDMQEFTKFPTKTGRRSLSRISISQSSTDY
SSAASYTDSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGRRREIEIAEQDMSALISLRKRAQGEKPLAGAKIVG
CTHITAQTAVLIETLCALGAQCRWSACNIYSTQNEVAAALAEAGVAVFAWKGESEDDFWWCIDRCVNMDGWQANM
ILDDGGDLTHWVYKKYPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCRESILDG
LKRTTDMFGGKQVVVCGYGEVGKGCCAALKALGAIVYITEIDPICALQACMDGFRVVKLNEVIRQVDVVITCTG
NKNVVTREHLDRMKNSCIVCNMGHSNTEIDVTSLRTPELTWERVRSQVDHVIWPDGKRVVLLAEGRLNLSCSTV
PTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLP SFD AHL TELTDDQAKYLGLNKNGPFPK
NYRY

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FIGURE 302A

GCTTATGGCGGCGCTGGAGAGGGGGCGCTGAGCTGTTGGGTATGAAGTGTAAACAGAACAGACTTTACCACCTGAA
ACTGCTGCTTCAAGTTCAGATCAGGCAAGGAACAAACCTCGTAACAACATAACAAGACCAAAGAAGAGTACACTTA
AGTTGAAGACACAACACTTGATCTGAAACAAGAAGTTTGTGCCTACTCAACAGCTTTTGAAAGAGCACTTCCCAAC
GCTGCTAGTAGTCTTTGTTTTCTTCAGTGCTGTACTGTGAGATTGCCCGGTACAGCAGCAGTTGTATTCTTTATT
AGCTTGGTAGATCATTCTCTCGCTCTTTTTTTAATACTAGCAACTTTTCATCCTTTGAAACGTGTGCTGAAAA
AGAAGAATCAGCAAATACTACTGAAAGTGCAATATTTGAGTATCACTGCGAGATGAGCTTTGATCCAAACCTTCT
CCACAACAATGGACATAATGGGTACCTAATGGTACTTCAGCAGCACTGCGTGAAACTGGGGTTATTGAAAACT
GTTAACCTCTTACGGATTTATTAGTGTTTCAAGCTAGACTTTTCTTCCACTGTTTACAGTATAATGG
CAACCTGCAAGACTTAAAAGTAGGAGATGATGTTGAATTTGAAGTATCATCGGACCGACGGACTGGGAAACCCAT
TGCTGTTAAACTGGTGAAGATAAAACAAGAAATCCTCCCTGAAGAACGAATGAATGGACAAGTTGTGTGCGCTGT
TCCTCACAACCTTAGAGAGTAAATCTCCAGCTGCCCCGGGTGAGAGTCCAACAGGGAAGTGTATGCTACGAACGTAA
TGGGGAAGTGTTTTATCTGACTTACACCCCTGAAGATGTGGAAGGGAACGTTTCACTGGAAGTGGAGATAAAAT
AACTTTGTAATTGATAACAATAAATACTGCTGCTGTAAGTGCTCGCAACATTATGCTGTTGAAAAAGAAACA
AGCCCGCTGTGAGGAGTAGTTTGTGCCATGAAGGAGGCATTGGCTTTATTGAAAGAGGTGATGTTGTAAGA
GATATTCTTTCACTATAGTGAATTTAAGGGTGACTTAGAAACCTTACAGCCTGGCGATGATGTGGAATTCACAAT
CAAGGACAGAAATGGTAAAGAAGTTGCAACAGATGTCAGACTATTGCCTCAAGGAACAGTCATTTTGAAGATAT
CAGCATTGAACATTTTGAAGGAAGTGAACCAAGTTATCCCAAAGTACCCAGTAAAAACCAGAATGACCCATT
GCCAGGACGCATCAAAGTTGACTTTGTGATCCCTAAAGAACTTCCCTTTGGAGACAAAGATACGAAATCCAAGGT
GACCCTGCTGGAAGGTGACCATGTTAGGTTTAATATTTCAACAGACCGACGTGACAAATTAGAGCGAGCAACCAA
TATAGAAGTTCTGTCAAATACATTTAGTTCACTAATGAAGCCGAGAAATGGGTGTGATTGCTGCCATGAGAGA
TGTTTTGGTTTTCATCAAGTGTGTGGATCGTGATGTTTCGTATGTTCTTCCACTTCAGTGAAATTCTGGATGGGAA
CCAGCTCCATATTGAGATGAAGTAGAGTTTACTGTGGTTCTGTATGCTCTCTGCTCAAAGAAATCATGCTAT
TAGGATTAATAAATTTCCCAAGGGCACGGTTTCATTTCATTCCATTGAGATCACCCTTTTCTGGGCACGGTAGA
AAAAGAAGCCACTTTTTCCAATCTAAAACCACTAGCCCAAATAAAGGCAAAGAGAAGGAGGCTGAGGATGGCAT
TATTGCTTATGATGACTGTGGGGTGAACTGACTATTGCTTTTCAAGCCAAGGATGTGGAAGGATCTACTTCTCC
TCAAATAGGAGATAAGGTTGAATTTAGTATTAGTGACAAACAGAGGCTGGACAGCAGGTTGCAACTTGTGTGCG
ACTTTTAGGTCGTAATTTCTAACTCCAAGAGGCTCTTGGGTTATGTGGCAACTCTGAAGGATAATTTTGGATTTAT
TGAAACAGCCAATCATGATAAGGAAATCTTTTTCCATTACAGTGAGTTCTCTGGTGATGTTGATAGCCTGGAAC
GGGGGACATGGTCGAGTATAGCTTGTCCAAAGGCAAAGGCAACAAAGTCAGTGCAAAAAAGTGAACAAAACACA
CTCAGTGAATGGCATTACTGAGGAAGCTGATCCCACTTTTACTCTGGCAAAGTAATTCGCCCCCTGAGGAGTGT
TGATCCAACACAGACTGAGTACCAAGGAATGATTGAGATTGTGAGGAGGGCGATATGAAAGGTGAGGTCTATCC
ATTTGGCATCGTTGGGATGGCCAACAAAGGGGATTGCCTGCAGAAAGGGGAGAGCGTCAAGTTCCAATTGTGTGT
CCTGGGCCAAAATGCACAACTATGGCTTACAACATCACACCCCTGCGCAGGGCCACAGTGAATGTGTGAAAGA
TCAGTTTGGCTTCATTAACTATGAAGTAGGAGATAGCAAGAAGCTCTTTTTCCATGTGAAAGAAGTTCAGGATGG
CATGAGCTACAGGCAGGAGATGAGGTGGAGTTCTCAGTGATTCTTAATCAGCGCACTGGCAAGTGCAGCGCTG
TAATGTTTGGCGAGTCTGTGAGGGCCCCAAGGCTGTTGCAGCTCCTCGACCTGATCGGTTGGTCAATCGCTTGAA
GAATATCACTCTGGATGATGCCAGTGCTCCTCGCCTAATGGTTCTTCGTAGCCAAGGGGACCAGATAACTCAAT
GGGGTTTGGTGCAGAAAGAAAGATCCGTCAAGCTGGTGTGATTGACTAACCACATCCACAAAGCACACCATTAAT
CCACTATGATCAAGTTGGGGGAATCTGGTGAAGGGTTCTGAATATCTCCCTCTTCATCCCTCCCGAAATCTGGA
ATACTTATTCTATTGAGCTATTACACAGTTTTAACACCTTCTCGTGTTATGTTTAAAAAATAAATAAATTTA
AGAAAACCATTTTAAATAATGCACAGTTGCAGCCTGGAAAACTTAAAGGTGGCGCCTTATAGTATCAATTTAGG
AGCTTTATTTGGTGCATTTAACGCAACTGGTAATTGCAGAATCCACTTTGCCTGTGTAAGTGAAAAATATAGACT
GTTATCTTGTGGCCCTATGAAATCTGCACCTTTTATTATATACTCTACCTTCATTAATTACTTCTGGCAAGAT
GTTCTGCCTTAGCACTCAGTTGCATTCTTTTCTTTCTTCTGTTTATTGCTTTAATTCTGAGGACCATAT
GAGGGTAGAATATATTATCTTTAAAAATTACAAAATTTGTATAGGCAAACCATTTCTTAAAGTTGATGGCCAA
ATTTTAAATGTTATTTTTTATATCATTTATAATCTTGTGCAATCCACTTAAAGAAGTTTGGTTATATTTTCACT
GAAAATTTTCTTCCAGAGTAGGTTTTTTTCTGTGGGTTGGGGGGTAACTTTACTACAATTAGTAAGTATGGTGCA
GAATTTTATGCAATGAGGAGTGCCAGCAGTGATGATAATTTAAACATATTTAAACAAAAACAAAAAATGAATG

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FIGURE 302B

CACAAACTTGCTGCTGCTTAGATCACTGCAGCTTCTAGGACCCGGTTTCTTTTACTGATTTAAAAACAAAACAAA
AAAAAATAAAAAAGTTGTGCCTGAAATGAATCTTGTTTTTTTTTATAAGTAGCCGCCTGGTTACTGTGTCCTGTA
AAATACAGACACTTGACCCTTGGTGTAGCTTCTGTTCACTTTATATCACGGGAATGGATGGGTCTGATTTCTTG
GCCCTCTTCTTGAATTGGCCATATACAGGGTCCCTGGCCAGTGGACTGAAGGCTTTGTCTAAGATGACAAGGGTC
AGCTCAGGGGATGTGGGGGAGGGCGGTTTTATCTTCCCCCTTGTCGTTTGAGGTTTTGATCTCTGGGTAAAGAGG
CCGTTTATCTTTGTAAACACGAAACATTTTGCTTCTCCAGTTTTCTGTTAATGGCGAAAGAATGGAAGCGAAT
AAAGTTTTACTGATTTTTTGAGACACT

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FIGURE 303

MSFDPNLLHNNHNGYPNGTSAALRETGVIEKLLTSYGFIQCSEARLFFHCSQYNGNLQDLKVGDDVEFEVSS
DRRTGKPIAVKLVKIKQEILPEERMNGQVVCAPHNLESKSPAAPGQSPTGSVCYERNGEVFYLYTPEDVEGNV
QLETGDKINFVIDNNKHTGAVSARNIMLLKKKQARCQGVVCAMKEAFGFIERGDVVKEIFFHYSEFKGDLETLP
GDDVEFTIKDRNGKEVATDVRLLPQGTIVFEDISIEHFEGTVTKVIPKVPSKNQNDPLPGRIKVDVFIPKELPFG
DKDTKSKVTLLLEGDHVRFNISTDRDKLERATNIEVLSNTFQFTNEAREMGVIAAMRDGFGFIKCVDRDVRMFFH
FSEILDGNQLHIADEVEFTVVPDMLSAQRNHAIKIKLPKGTVSFHSRSHRFLGTVEKEATFSNPKTTSNKGK
EKEAEDGIIAYDDCGVKLTIAFQAKDVEGSTSPQIGDKVEFSISDKQRPQQVATCVRLGRNSNSKRLLGYVAT
LKDNFGFIETANHDKEIFFHYSEFSGDVDSLELGDMVEYSLSKGKGNKVS AEKVNKTHSVNGITEEADPTIYSGK
VIRPLRSVDPTQTEYQGMIEIVEEGDMKGEVYPFGIVGMANKGDCLQKGESVKFQLCVLGQNAQTMAYNITPLRR
ATVECVKDQFGFINYEVGDSKKLFFHVKEVQDGIELQAGDEVEFSVILNQRTGKCSACNVWRVCEGPKAVAAPRP
DRLVNRLKNITLDDASAPRLMVLRRQPRGPDNSMGFGAERKIRQAGVID

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FIGURE 304

GCTGAAGATGGGAGCCACTCTCAAAATCATGCTGGATAACACCTACATGAAAAAGTGTGACGAGAACATCCTGTG
GCTGGACTACAAGAACATCTGCAAGGTGATGGAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCT
CCAGGTAAAGCAGAAAGGTGCTGACTTCCTGGTGACGGAGGTGGAACTGGTGGTTCCTCGGGCAGCAAGAAGGG
TGTGAACCTTCCTGGGGCTGCTGTGGACTTGCCTGCTGTGTCAGAGGACATCCAGGACCTGAATTTGGGGTCGA
GCAGGATGTCGATATGGTGTGTTGCGTCGTTTCATCCGCAAGGCATCTGATGTCCATGAAGTTAGGGAGGCCCTGGG
AGAGAAGGGAAAAGAAAACACTCCACCCTCCACCTTCCATTTTCCCCCACTACTGCAGCACCTCCGGGCCTGTTGC
TATAGAGCCTACCTGTATATCAATAAACACAGCTTGAAG

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FIGURE 305

MGATLKIMLDNTYMKKCDENILWLDYKNICKVMEVGSKIYVDDGLISLQVKQKGADFLVTEVETGGSSGSKKGVN
LPGAAVDLPAVSEDIQDLNFGVEQDVMVFASFIRKASDVHEVREALGEKGKCTLHPPPSIFPHYCSTSGPVAIE
PTCISINNS

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FIGURE 306

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCAATGGACCAGAAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTTCATTGCCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCTCTTGTCCATTGGAGGGTACCTGTTTGGTTCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACCTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTCATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAAGATCTGGATTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACAT
ATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCTGACCTATTATGAGATCTGCCAGTTTCTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTTCAGTTCTTAAAGAAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCAC TG
GCAAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTTCCAAGCCTTTCCTGACTTCCTCTTAGATCATAGATTGGACCTGGT
TTTGTTCCTGCTGAGCTGTTGACTTGTGCTTGAAGTACAATAAAAAAATTCATTTTGCTCCAGTA

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FIGURE 307

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVVIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 308

GGGGAGACTTGTGAGCGGCCATCTTGGTCCTGCCCTGACAGATTCTCCTATCGGGGTCACAGGGACGCTAAGATT
GCTACCTGGACTTTTCGTTGACCAATGCTGTCCCGGTGGTACTTTCCGCCGCCGCCACAGCGGCCCCCTCTCTGAA
GAATGCAGCCTTCCTAGGTCCAGGGGTATTGCAGGCAACAAGGACCTTTCATACAGGGCAGCCACACCTTGTCCC
TGTACCACCTCTTCCTGAATACGGAGGAAAAGTTCGTTATGGACTGATCCCTGAGGAATTCTTCCAGTTTCTTTA
TCCTAAAACTGGTGTAACAGGACCCTATGTACTCGGAACTGGGCTTATCTTGTACGCTTTATCCAAAGAAATATA
TGTGATTAGCGCAGAGACCTTCACTGCCCTATCAGTACTAGGTGTAATGGTCTATGGAATTAAAAAATATGGTCC
CTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAAACCTTGCCCAACTAGAAGAGGCGAAGCAGGCTTCCAT
CCAACACATCCAGAATGCAATTGATACGGAGAAGTCACAACAGGCACTGGTTTCAGAAGCGCCATTACCTTTTTGA
TGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTTACCGGGAACGACTGTATAGAGTATATAAGGAAGT
AAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGCGTCGAAAGGAACAAGAACACATGATAAATTG
GGTGGAGAAGCACGTGGTGCAAAGCATCTCCACACAGCAGGAAAAGGAGACAATTGCCAAGTGCATTGCGGACCT
AAAGCTGCTGGCAAAGAAGGCTCAAGCACAGCCAGTTATGTAAATGTATCTATCCCAATTGAGACAGCTAGAAAC
AGTTGACTGACTAAATGGAACTAGTCTATTTGACAAAGTCTTTCTGTGTTGGTGTCTACTGAAGTTATAGTTTA
CCCTTCCTAAAAATGAAAAGTTTGTTCATATAGTGAGAGAACGAAATCTCTATCGGCCAGTCAGATGTTTCTCA
TCCTTCTTGCTCTGCCTTTGAGTTGTTCCGTGATCACTTCTGAATAAGCAGTTGCCTTTATAAAAACCTTGCTGC
CTGACTAAAGATTAAACAGGTTATAGTTTAAATTTGTAATTAATTCTACCATCTTGCAATAAAGTGACAATTGAAT
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 309

MLSRVVL SAAATAAPSLKNA AFLGPGVLQATRTFHTGQPHLVPVPPLPEYGGKVRYGLIPEEFFQFLYPKTGVTG
PYVLGTGLILYALSKEIYVISAETFTALSVLGVMVYGIKKYGPFVADFADKLNEQKLAQLEEAQASIQHIQNAI
DTEKSQQALVQKRHYLFQVQRNNIAMALEVTYRERLYRVYKEVKNRLDYHISVQNMRRKEQEHMINWVEKHVVQ
SISTQKEKETIAKCIADLKLLAKKAQAQPM

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FIGURE 310

GC GGGGAGCCGGCCCGGAGCGCAGTTTCCAGTGGGGCCGGGGTTTCACCCGGGGCCCTCTCTGTTTGAACCGAACC
CGACAAATGGGCGCATGACGATGGAGAGCAGGGAAATGGACTGCTATCTCCGTCGCCTCAAACAGGAGCTGATGT
CCATGAAGGAGGTGGGTGATGGCTTACAGGATCAGATGAACTGCATGATGGGTGCACTGCAAGAACTGAAGCTCC
TCCAGGTGCAGACAGCACTGGAACAGCTGGAGATCTCTGGAGGGGGTCCCTGTGCCAGGCAGCCCTGAAGGTCCCA
GGACCCAGTGCAGACACCCTTGTTGGGAGGGTGGCAGAGGTCCTGCCAGGCCCACAGTCTGTTCCCCCTCCAGTC
AACCTTCTCTTGGCAGCAGCACCAAGTTTCCATCCCATAGGAGTGTCTGTGGAAGGGATTTAGCCCCCTTGCCCA
GGACACAGCCACATCAAAGCTGTGCTCAGCAGGGGCCAGAGCGAGTGGAACCGGATGACTGGACCTCCACGTTGA
TGTCCTCCGGGGCCGGAATCGACAGCCTCTGGTGTTAGGGGACAACGTTTTTGCAGACCTGGTGGGCAATTGGCTAG
ACTTGCCAGAACTGGAGAAGGGTGGGGAGAAGGGTGAGACTGGGGGGGCACGTGAACCCAAAGGAGAGAAAGGCC
AGCCCCAGGAGCTGGGCCCGCAGGTTTCGCCCTGACAGCAAACATCTTTAAGAAGTTCTTGCGTAGTGTGCGGCCTG
ACCGTGACCGGCTGCTGAAGGAGAAGCCAGGCTGGGTGACACCCATGGTCCCTGAGTCCCGAACCGGCCGCTCAC
AGAAGGTCAAGAAGCGGAGCCTTTCCAAGGGCTCTGGACATTTCCCTTCCCAGGCACCGGGGAGCACAGGCGAG
GGGAGAATCCCCCACAAGCTGCCCCAAGGCCCTGGAGCACTCACCTCAGGATTTGATATTAACACAGCTGTTT
GGGTCTGAATCCTAGAGACAGAAAGTTGACTGAGCCTGAAAGGGCCAGGTCCCAGTGCTGGGCCCCCTGGGGAGGA
GGGAGGGTGGGCGGTATGGCTCTCGAAAGCCCAACTCCAAGTTCCTTTCCCCCAGAAAGCGGGGAGAAGCCAGAG
TTCTTGCTCAGGACTGAAGGGAAGGTGGTTGGGAGAGGCTGTCTTGGGGGCTAGCTGGTGGAGGAGGTAAGAGT
AGCTGGAGAGTGAGCTGTGCGTGTGTGTGTGTGTGTGTCATGTGTGTGTCTGTCTGGCATGCATGCACTCACTT
TGGGGCTGGAGGTGACAGTAGGTGAGGGCAGAGGAGGAGATCAGAAAATCCCTCTGACATCTCCACTGCCCCAA
AGACCTCCGTTGAACATTCTGTATGGAAGAGCCCTGGAGCATCAGGTTCCCCAGATAGGCCCCCAAATAAAGA
CCTGTCTATGGCTCTCCCA

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FIGURE 311

MTMESREMDCYLRRLKQELMSMKEVGDGLQDQMNCMMGALQELKLLQVQTALQLEISGGGPVPGSPEGPRTQCE
HPCWEGGRGPARPTVCSPSSQPSLGSSTKFPSHRSVCGRDLAPLPRTQPHQSCAQQGPERVEPDDWTSTILMSRGR
NRQPLVLGDNVFADLVGNWLDLPELEKGGEKGETGGAREPKGEKGQPQELGRRFALTANIFKKFLRSVRPDRDRL
LKEKPGWVTPMVPESTRGRSQVKKRSLSKGSGHFFFPGTGEHRRGENPPTSCPKALEHSPSGFDINTAVWV

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FIGURE 312A

GGCACGAGGCTGGGGCGCAGAGCAGCGGCGGGAGGAGGCGGACACGTGGCAACAGCGGTAGCAGCCCCGGGCGGCG
GCAGCAACAGCGGCGGCGGCATCGGCCCGAGCCGCGGCGGCCCTCCCACCCTCCCGCCCCGCGGCAGCCCTAGC
TCCCTCCACTTGGCTCCCTGGTCCCGCTCGCTCGGCCGGGAGCTGCTCTGTGCTTTTCTCTCTGATTCTCCAGC
GACAGGACCCGGCGCGGGGCACTGAGCACCGCCACCATGGGGAAGGGGGTTGGACGTGATAAGTATGAGCCTGCA
GCTGTTTCAGAAACAAGGTGATAAAAAGGGCAAAAAGGGCAAAAAGACAGGGACATGGATGAACTGAAGAAAGAA
GTTTCTATGGATGATCATAAACTTAGCCTTGATGAACTTCATCGTAAATATGGAACAGACTTGAGCCGGGGATTA
ACATCTGCTCGTGACAGCTGAGATCCTGGCGCGAGATGGTCCCAACGCCCTCACTCCCCCTCCCACTACTCCTGAA
TGGATCAAGTTTTGTGGCGAGCTCTTTGGGGGGTTCTCAATGTTACTGTGGATTGGAGCGATTCTTTGTTTTCTTG
GCTTATAGCATCCAAGCTGCTACAGAAGAGGAACCTCAAAACGATAATCTGTACCTGGGTGTGGTGCTATCAGCC
GTTGTAATCATAACTGGTTGCTTCTCCTACTATCAAGAAGCTAAAAGTTCAAAGATCATGGAATCCTTCAAAAAC
ATGGTCCCTCAGCAAGCCCTTGTGATTGCAATGGTGAGAAAATGAGCATAAATGCGGAGGAAGTTGTGGTTGGG
GATCTGGTGGAAGTAAAAGGAGGAGACCGAATTCTGCTGACCTCAGAATCATATCTGCAAATGGCTGCAAGGTG
GATAACTCCTCGCTCACTGGTGAATCAGAACCCCGAGACTAGGTCTCCAGATTTCACAAATGAAAACCCCTGGAG
ACGAGGAACATTGCCTTCTTTTCAACCAATTGTGTTGAAGGCACCGCACGTGGTATTGTTGTCTACACTGGGGAT
CGCACTGTGATGGGAAGAATTGCCACACTTGCTTCTGGGCTGGAAGGAGGCCAGACCCCATTTGCTGCAGAAATT
GAACATTTTATCCACATCATCAGGGTGTGGCTGTGTTCTGGGTGTGCTTTTCTTCATCCTTTCTCTCATCCTT
GAGTACACCTGGCTTGAGGCTGTCTCTTCTCATCGGTATCATCGTAGCCAATGTGCCGGAAGGTTTGCTGGCC
ACTGTCACGGTCTGTCTGACACTTACTGCCAAACGCATGGCAAGGAAAACTGCTTAGTGAAGAACTTAGAAGCT
GTGGAGACCTTGGGGTCCACATCCACCATCTGCTCTGATAAACTGGAACCTGACTCAGAACCGGATGACAGTG
GCCACATGTGGTTTGACAATCAAATCCATGAAGCTGATACGACAGAGAATCAGAGTGGTGTCTCTTTTGACAAG
ACTTCAGCTACCTGGCTTGCTCTGTCCAGAATTGCAGGTCTTTGTAACAGGGCAGTGTTCAGGCTAACCAGGAA
AACCTACCTATTCTTAAGCGGGCAGTTGCAGGAGATGCCTCTGAGTCAGCACTCTTAAAGTGCATAGAGCTGTGC
TGTGGTTCCGTGAAGGAGATGAGAGAAAGATACGCCAAAATCGTCGAGATACCCTTCAACTCCACCAACAAGTAC
CAGTTGTCTATTATAAGAACCCCAACACATCAGAGCCCCAACACCTGTTGGTGATGAAGGGCGCCCCAGAAAGG
ATCCTAGACCGTTGCAGCTCTATCCTCCTCCACGGCAAGGAGCAGCCCCCTGGATGAGGAGCTGAAAGACGCCTTT
CAGAACGCCTATTTGGAGCTGGGGGGCCTCGGAGAACGAGTCCTAGGTTTCTGCCACCTCTTTCTGCCAGATGAA
CAGTTTCTGAAGGGTTCCAGTTTGACACTGACGATGTGAATTTCCCTATCGATAATCTGTGCTTTGTTGGGCTC
ATCTCCATGATTGACCCTCCACGGGCGGCCGTTCTGATGCCGTGGGCAAATGTCGAAGTGCTGGAATTAAGGTC
ATCATGGTCACAGGAGACCATCCAATCAGCTAAAGCTATTGCCAAAGGTGTGGGCATCATCTCAGAAGGCAAT
GAGACCGTGGAAGACATTGCTGCCCCGCTCAACATCCCAGTCAGCCAGGTGAACCCAGGGATGCCAAGGCCTGC
GTAGTACACGGCAGTGATCTAAAGGACATGACCTCCGAGCAGCTGGATGACATTTTGAAGTACCACACTGAGATA
GTGTTTGCCAGGACCTCCCCCTCAGCAGAAGCTCATCATTGTGGAAGGCTGCCAAGACAGGGTGCTATCGTGGCT
GTGACTGGTGACGGTGTGAATGACTCTCCAGCTTTGAAGAAAGCAGACATTGGGGTTGCTATGGGGATTGCTGGC
TCAGATGTGTCCAAGCAAGCTGCTGACATGATTCTTCTGGATGACAACCTTGCCTCAATTGTGACTGGAGTAGAG
GAAGGTCGTCTGATCTTTGATAACTTGAAGAAATCCATTGCTTATACCTTAACCAGTAACATTCCCGAGATCACC
CCGTTCCGTGATATTTATTATTGCAAACATTCCACTACCCTGGGGACTGTCACCATCCTCTGCATTGACTTGGGC
ACTGACATGGTTCTTGCCATCTCCCTGGCTTATGAGCAGGCTGAGAGTGACATCATGAAGAGACAGCCCAGAAAT
CCCAAAACAGACAAACTTGTGAATGAGCGGCTGATCAGCATGGCCTATGGGCAGATTGGAATGATCCAGGCCCTG
GGAGGCTTCTTTACTTACTTTGTGATTCTGGCTGAGAACGGCTTCTCCCAATTCACCTGTTGGGCCTCCGAGTG
GACTGGGATGACCGCTGGATCAACGATGTGGAAGACAGCTACGGGCAGCAGTGGACCTATGAGCAGAGGAAAATC
GTGGAGTTACCTGCCACACAGCCTTCTTCGTAGTATCGTGGTGGTGCAGTGGGCCGACTTGGTCATCTGTAAG
ACCAGGAGGAATTCCGTCTTCCAGCAGGGGATGAAGAACAAAGATCTTGATATTTGGCCTCTTTGAAGAGACAGCC
CTGGCTGCTTTTCTTCTACTGCCCCTGGAATGGGTGTTGCTCTTAGGATGTATCCCCTCAAACCTACCTGGTGG
TCTGTGCTTCCCTACTCTCTTCTCATCTTCGTATATGACGAAGTCAGAAAACCTCATCATCAGGCGACGCCCT
GGCGGCTGGGTGGAGAAGGAAACCTACTATAGCCCCCGTCTGCACGCCGTGGAGCATCAGGCCACACACTCT
GCATCCGACACCCACCCCTCTTTGTGTACTTCAGTCTTGGAGTTTGGAACTCTACCCTGGTAGGAAAGCACCGC
AGCATGTGGGGAAGCAAGACGTCTGGAATGAAGCATGTAGCTCTATGGGGGAGGGGGAGGGCTGCCTGAAAA
CCATCCATCTGTGGAATGACAGCGGGGAAGGTTTTTATGTGCCTTTTTGTTTTTGTA AAAAAGGAACACCCGGA

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FIGURE 312B

AAGACTGAAAGAATACATTTTATATCTGGATTTTACAAATAAAGATGGCTATTATAATGGAAAAAAAAAAAAA
AAAAA

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FIGURE 313

MGKGVGRDKYEPAAVSEQGDKKGGKGGKDRDMDELKKEVSMDDHKLSLDELHRKYGTDLSRGLTSARAAEILARD
GPNALTPPPTPEWIKFCRQLFGGFSMLLWIGAILCFLAYSIQAATEEEPQNDNLYLGVVLSAVVIITGCFSYQ
EAKSSKIMESFKNMVPPQALVIRNGEKMSINAEVVGDLVEVKGGDRIPADLRISANGCKVDNSSLTGESEPQ
TRSPDFTNENPLETRNIAFFSTNCVEGTARGIVVYTGDRVTMGRIATLASGLEGGQTPIAAEIEHFIHIITGVAV
FLGVSFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICS
DKTGTLTQNRMTVAHMFWDNQIHEADTTENQSGVSFDKTSATWLALSRIAGLCNRAVFQANQENLPILKRAVAGD
ASESALLKCIELCCGSVKEMRERYAKIVEIPFNSTNKYQLSIHKNPNTSEPQHLLVMKGAPERILDRCSILLHG
KEQPLDEELKDAFQAYLELGGLGERVLGFCHLFLPDEQFPEGQFQDIDDVNFPIDNLCFVGLISMIDPPRAAVP
DAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVVHGSDDLKDMTS
EQLDDILKYHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMIL
LDDNFASIVTGVEEGRILFDNLKKSIAYTLTSTNIPEITPFLIFIIANIPLPLGTVTILCIDLGTDMPAISLAYE
QAESDIMKRQPRNPKTDKLVNERLISMAYGQIGMIQALGGFFTYFVILAENGFLPIHLLGLRVDWDDRWINDED
SYGQQWTYEQRKIVEFTCHTAFFVSIVVQWADLVICKTRRNSVFQGMKNKILIFGLFEETALAFLSYCPGMG
VALRMYPLKPTWWFCAFPYSLLIFVYDEVKLIIRRRPGGWVEKETYY

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FIGURE 314A

TTCCAAAAC TGTTC TCTGGAGCTATAAGTGGATTGCCAGAAATGAGAGATTAGGAGCTGGGAGAAGAGGAAGCGC
CTTGTGTTGTGTCTCTGGAGGCTGCCGACATGAAGTGCTTTTTCCCGGTGCTGAGCTGTCTGGCTGTGCTGGGT
GTGGTGT CAGCACAGCGGCAGGTACCGTT CAGGAAGGACCCTTG TACCGCACGGAGGGCTCCACATCACTATC
TGGTGCAATGTGAGTGGCTACCAGGGACCTTCTGAGCAGAATTTCCAGTGGTCCATTTACCTGCCTTCGTGCGCA
GAGCGAGAGGTGCAGATCGTCAGCACCATGGACTCTTCCTTCCCTATGCCATCTACACCCAGCGCGTCCGCGGA
GGGAAGATCTTCATAGAAAGAGTCCAGGGGAACTCAACCCTATTGCACATCACAGATCTTCAGGCCCGGGATGCC
GGGAGTATGAATGCCACACACCCAGCACTGATAAGCAATACTTTGGGAGTTACAGTGCAAAGATGAACCTAGTG
GTGATCCCAGACTCCCTGCAGACCACTGCCATGCCCCAGACTCTGCACAGAGTGGAGCAGGACCCGCTGGAGCTC
ACTTGTGAGGTGGCCTCAGAGACCATT CAGCACAGCCACCTGTCTGTGGCCTGGCTCCGGCAGAAAGTTGGCGAG
AAGCCCGTGGAGGT CATCTCCCTGAGCCGAGATT CATGCTTCACTCCAGCAGCGAATATGCCCAGAGGCAGAGC
CTGGGGGAGGTGCGGCTGGACAAGCTGGGGAGGACCACCTTCCGCCTCACCATCTTCCACCTGCAGCCTTCTGAC
CAGGGCGAATTCTACTGCGAGGCCGCCGAGTGGATCCAGGATCCGGATGGGTCTGTGGTATGCTATGACCCGAAAG
CGTTCGAGGGAGCCGTGGTCAACGTCCAGCCAACTGACAAAGAATTCACTGTTCCGGCTGGAGACAGAGAAGCGG
CTGCACACGGTGGGCGAGCCGGTGGAGTT CAGATGCATCCTGGAGGCTCAGAATGTTCCCGACCGTTACTTTGCT
GTCTCCTGGGCCTTCAACAGCTCGCTCATCGCCACCATGGSTCCTAACGCTGTGCCTGTCTCAACAGCGAATTT
GCTCACC GGGAAGCCAGGGGACAGCTTAAGGTGGCCAAAGAGAGCGACAGTGTCTTTGTGCTGAAGATCTACCAC
CTCCGCCAGGAAGATAGCGGGAAATACAAC TGCCGGGTGACTGAGCGAGAGAAAACCGTGACCGGGGAATTCATT
GATAAGGAGAGCAAGCGTCCCAAGAACATCCCCATCATAGTCTCCCCCTCAAGAGCAGCATCTCCGTGGAGGTG
GCCAGCAATGCCAGCGTCATCCTTGAGGGCGAGGACCTGCGCTTCTCCTGCAGTGTCCGCACGGCAGGCAGGCCG
CAGGGTTCGCTTCTGTCTCATCTGGCAGCTTGTGGACAGGCAGAACCGCCGAGCAATATCATGTGGCTAGACCGG
GATGGCACCGTGCAGCCAGGCTCGTCTACTGGGAGCGCAGCAGCTTTGGGGGCGTCCAGATGGAGCAGGTGCAG
CCCAACTCGTT CAGCCTGGGCATCTTCAACAGCAGGAAGGAGGACGAGGGCCAGTATGAATGCCATGTGACTGAA
TGGGTGCGGGCAGTGGATGGCGAGTGGCAGATTGTTGGGGAGCGCCGGGCCAGCACTCCCATCTCCATCACAGCT
CTTGAAATGGGCTTCGCAGTACAGCCATCTCCCGGACACCGGGGGTGACCTACAGCGACTCCTTTGACTTGAG
TGTATCATCAAACCCCACTACCCTGCCTGGGTCCCCGTGTCGGTGACATGGCGGTTCCAGCCGGTGGGCACGGTG
GAGTTCCATGACTTGGTGACCTTACCCGGGACGGAGGGGTCCAGTGGGGGGACAGGTCTCCAGCTTCCGAACC
CGAACTGCCATCGAGAAGGCTGAGTCCAGCAACAACGTCCGCCTAAGCATCAGCCGAGCCAGTGACACGGAAGCA
GGCAAGTACCAGTGTGTGGCAGAGCTGTGGCGGAAGAACTACAACAACACCTGGACGCGACTGGCGGAGAGGACC
TCCAACCTGCTGGAGATCAGGGTGTGTCAGCCAGTGACAAAGCTGCAGGTGAGCAAATCGAAGAGGACCCTCACC
CTGGTGGAAAACAAGCCCATT CAGTTGAACTGCTCAGTCAAGTCTCAGACTAGCCAGAACTCCCACTTTGCGGTG
CTCTGGTATGTCCACAAGCCCTCGGATGCCGATGGCAAGCTTATCCTGAAGACCACCCACAACCTCCGCCTTTGAA
TACGGTACTTACGCCGAGGAGGAGGGCCTGAGAGCCAGGCTCCAGTTTGAGAGGCATGTGTGCGGGGGCCTGTTT
AGCCTCACCCTCAGAGAGCCGAGGT CAGCGACAGCGGCAGCTACTACTGCCACGTGGAGGAGTGGCTGCTGAGC
CCCAACTACGCCTGGTACAAGCTGGCAGAGGAGGTTTCTGGGCGCACAGAAGTCACTGTGAAACAGCCAGACAGC
CGCCTGAGGCTCAGCCAAGCCCAGGGGAACCTGTGCGTTCTGGAGACCCGGCAGGTACAGCTGGAGTGTGTGGTT
CTCAACCGCACCAAGCATAACCTCCCAGCTCATGGTGGAATGGTTGTATGGAAGCCCAACCACCTGAGCGGGAG
ACTGTGGCCCGCTTGAGCCGTGACGCCACCTTCCACTATGGAGAGCAGGCAGCCAAGAACAATCTGAAGGGGCGG
CTGCATTTGGAGAGTCCTTCCCCCGGCGTGTACCGTCTCTTCATCCAGAACGTGGCTGTGCAGGACAGCGGGACC
TACAGCTGCCATGTGGAGGAGTGGCTGCCAGCCCCAGTGGCATGTGGTATAAGCGGGCAGAGGACACCGCTGGG
CAGACAGCTCTGACAGTCATGCGACCAGATGCTTCCCTGCAGGTGGACACAGTGGTCCCCAATGCCACGGTCTCT
GAGAAGGCAGCTTTCCAGCTGGACTGTAGCATCGTGTCCCGCTCCAGCCAGGACTCCCGCTTCGCTGTGGCCTGG
TATTCCCTGAGGACTAAAGCTGGGGGGAAGGAGCAGCCCTGGCCTGGAAGAACAGGAAGAGGAAAGGGAGGAG
GAGGAGGAGGAGGACGACGACGACGACGACCAACAGAGCGGACGGCCCTGCTGAGCGTGGGCCCAGATGCT
GTCTTTGGCCCAGAGGGCAGTCTTGGGAGGGCAGGCTTCGCTTCCAGAGGCTCTCCCCGGTGTCTACCGGCTC
ACAGTGTCTGCAGGCAAGCCCCAAGATACAGGCAATTACTCTGCCATGTGGAGGAGTGGCTGCCAGCCCTCAG
AAGGAATGGTACCGGCTGACGGAGGAGGAGT CAGCCCCATCGGCATCCGTGTTCTAGATACAAGTCCCACCTC
CAGTCCATCATCTGCTCCAACGACGCACTCTTCTACTTCGTCTTCTTCTACCTTTCCCCATCTTTGGCATTCTT
ATCATCACCATCTTCTGGTGCCTTCAAGAGCCGGAACCTCCAGCAAGAAGTCTGATGGGAAGAATGGGGTGCCT

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FIGURE 314B

CTGCTGTGGATCAAAGAGCCACACCTCAACTACTCCCCTACTTGCCTGGAGCCCCCTGTTCTCAGTATCCATCCA
GGGGCCATAGACTAAGCGGGTGATGCCCCAGCGGATGTTGGCCACGGAGGAGCTGAGGCTCTCCCTTTCTCTGTG
ATTGGACAGTTGACAGCACCCAACTCTGGGGTGTCATGTGTGTGGAAAGTTGTCAGACTTGAAAAGTGTTCCAAG
TTCCCAGTCAGTCACAGAGACAGACTGCCTCTCGGTGGCAGTCTTGTTGGTTAGCTATTTGCGCGCAAATGTTG
TGATCCTGCCATTATAGATTTCTTGTTTCTGTTTTTAGTAATGTAGTGAGTAGCTCCAGGTGCCACATCTACTCA
CAGATTTATCTAGTATTCTCAGATAGATGTTACAGGGCTTCTTATTCTTTGTAATGTACTCTTTTTAAATCCCTT
TAGTTTACCCTTTTTGGATTCCCTTAATGTGGACGAATTTCTCTTACGTACAACTGACAGCAAAAGGAAGGGCGAA
CTTTCTAGTGACAAGGAATCTCTTCCAAGACTTTGTTTTTGCACATTTGAAAATGCCACCCATGGATCAAAATAT
ACCCAAACGTTTTTTACTTTCTTAACAAGACTTAAGAATTGTGTGTAGTGTGGGCAAAATTTGTATGTTGTCTTT
TCCCTCAGCTGGAGTTATTGGAACCACTTTGTAGTCAAGACGAAAGCACTGAATTTTGCTTCAAAGAAGTGTGTA
TGTACAAGAGAAATCCTGCATAACCCCATTAGGAGTAGATGGTGCCCGGCCTATCTGTGAGGGAGGCAAAAAGG
CTTCATCCCATCCTTGCCAAAAATAAGAAAAGTGTCTTGAGAAATGGGTGAGAAGCCCCAAACGGGCACACACTT
TCCAAATTAAAGTGGGCAGGGGCTGCTTTTAGCAGCTGCTGACCTGCAGATTTGTCAAAGCCAGTGACTAGAGAA
GGAAGGGAGAAAGGCTGGCTGTTGGCTTGCTCTGAGCTGCAAGGATGGTCTCTAACTGATTAAGTGTGAGCAGGT
GGGCCTGTGTCTTCAGGTGCTTTGCCAACTCTTAAAGAAAGTGTCCAGTGAAGTGGGAAGTGGGCCCCCTGAGC
TGAGCACAGGGCCAAAGCAGCCATGGCAGACACCTGACGGAGGGCACGGGGCTGGCTGACACTAAGTTTGGTGGG
ACAGTGAGGGGTGGGAGGGGGGTTCCAGGGCCTGGTGTGGAGAGTGCAGAGAAATATCTACCTCCCTGGAGGT
GTGAAGACTAGGTTTTCTTCTTCCCTTCCAATTAGATTTTCTTAAATTATAGTGATGCTTCCCTATTCTTTTT
CTCTCCCTGCCTCTCACTGCCATAAGAAATACAGCCTGGGGGCAGTCCAGACGCAGCCCTTTGTCTATCCTTTCTG
TTTGCTAGTCTCAGCAGACTGTGATCACAAGGCATTGTCTGTGGGATTTTTCTTTCCCTTTCTTGATCTCTCT
TGTGGTTCTAGGTGTTTTGGTTGTTTATTGTTATGGTGGCTTTTTATTTTAAACGGCCCTTGAGCCCCATGATGGC
TGGTGTACCCCTGTTCTTTTACACTGTTGGGCCAGGTGCTGCTTGTCTTCTTAGGGCATCATCAATTGCAAATA
TTTCTTTTGTCTCCCTTTATGAAGATGTTCTTATACCCTTGCTTTCCCATATTTTTCTGGCCAAGCATGCCATCT
CCTTTACTCTGGGAAGTTACATCCTGAATCCCAAGAGGGGTGCAGTTTGGAAAAAGTCATCAGGGATTCTGGA
ACTAAGTCTGATAAAAGATTCCAGTGAAGCCCTGTTCTGAGAACGAGCAGACTGCAGGGGAGGCCATGGGATTCC
CCAGGCCAGTGCTGTGTGCTGATCCTTCAAGGGTCTGCAGGTATGCAGGTGGCCTGGGCTGCTCGGCAGATACTTT
GCTGATTCCCAGCTGAGGGGAGCATGGTGGCGATTGCTCAGCCATTTTCTGACAGACACACAGACCTGCCTTTTC
TCCCCAAGTATACCGTACCCTCCTGTGAGACAGTGTGTGAGGCACCAACCTTAATCCTGCTGTTGCCTGAC
ATGCTGATTCTCATTTATTATGCTGCATCAACACATTAGAGGTACAGGAGCGGCTCAGTCATGAAAAAAGAAGGT
CTTTTGGCCCATTTCTTTATTTTCAAGATGTGGGCTTTTCAAGTGGGAATTTGCTGACTCCTACTTTATAGGCTGAG
TCAATGAGGGAAGATGACTGGCGTTTCTCTGTCTAAATGGGAGGTGGCCAGAGCGCTGGCTGGGACTAGGATGT
GTAATAAGATTTTCAAGTTTGAATCTTAGATTTTCAAGTTCACGGCGATAAAGAAGTAGGTGCTGCACACAAATATG
TAAAGCAATTGTAGGAAATTTGAAAGGAAAAAAGAAACCGAAGCCAGTATTTAATAATTGCTTTTTTCTGTGTA
TTTTGTATTGGGCTGGGGATAGCATCAAAGGTTGAACTTTTTGAGCTTTCTATGAAAAACCCAGGACCTTCTT
TCTTTGGCCATTTCTATGAAATGCGATGTCAGATGGATGGTAATGGTGCCCTCCAGTGGCTGTGAGACCTCAT
GCGCATTGTCTACTGGAGCTTTAGTCTTCTGAGACGGAGGAAAAGTCTGAATACTCTGGATTCTATGTCTA
CAATGTTGCATTTATGAAAACTACACTGTGCTAGGCGCATTCTAGGACATGAATATGACCACACCTCTTTTAC
CGGTGTTTTCTGTAGCAAGTTTTTATATTCTTTTCAAACAATGGTTTTCTCTGCGTTAATTATTAGGAAAAA
AGATGGGGTAAGAAAAGTACCCATGCATGATGTAGAGAGCTGTTGATTGTTTTCTGTTTTTTAAAGGAAAACTA
TTTGTAAGATGTTGCACTAAACATTTTATATACACTTCAGAGACCTGTAGTAAATTATGTTGAAAT

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FIGURE 315A

GCTCTTTGCCGAGGGCGTGTGGTGAGAGTCCCCACAGCGACCCTGGTTCGAGTGGTGGGCACTGAGCTGGTCATC
CCCTGCAACGTCAGTGACTATGATGGCCCCAGCGAGCAAACTTTGACTGGAGCTTCTCATCTTTGGGGAGCAGC
TTTGTGGAGCTTGCAAGCACCTGGGAGGTGGGGTTCCCAGCCCAGCTGTACCAGGAGCGGCTGCAGAGGGGCGAG
ATCCTGTAAAGGCGGACTGCCAACGACGCCGTGGAGCTCCACATAAAGAACGTCCAGCCTTCAGACCAAGGCCAC
TACAAATGTTCAACCCCCAGCACAGATGCCACTGTCCAGGGAACTATGAGGACACAGTGCAGGTTAAAGTGCTG
GCCGACTCCCTGCACGTGGGCCCCAGCGCGCGGGCCCCCGCGAGCCTGAGCCTGCGGGAGGGGGAGCCCTTCGAG
CTGCGCTGCACCGCCGCTCCGCTCGCCGCTGCACACGCACCTGGCGCTGCTGTGGGAGGTGCACCGCGGGCCG
GCCAGGCGGAGCGTCTCGCCCTGACCCACGAGGGCAGGTTCCACCGGGCCTGGGGTACGAGCAGCGCTACCAC
AGTGGGGACGTGCGCTCGACACCGTGGGCAGCGACGCTTACCGCTCTCAGTGTCCCGGGCTCTGTCTGCCGAC
CAGGGCTCCTACAGGTGTATCGTCAGCGAGTGGATCGCCGAGCAGGGCAACTGGCAGGAAATCCAAGAAAGGCC
GTGGAAGTTGCCACCGTGGTGATCCAGCCATCAGTTCTGCGAGCAGCTGTGCCAAGAATGTGTCTGTGGCTGAA
GGAAAGGAAGTGGACCTGACCTGTAACATCACAACAGACCGAGCCGATGACGTCCGGCCCGAGGTGACGTGGTCC
TTCAGCAGGATGCTGACAGCACCTACCTGGCTCCCGCTGTTGGCGCGGCTTGACCGTGATTCCCTGGTGCAC
AGCTCGCCTCATGTTGCTTTGAGTCATGTGGATGCACGCTCTTACCATTACTGGTTCGGGATGTAGCAAAGAA
AACTCTGGCTACTATTACTGCCACGTGTCCCTGTGGGCACCCGGACACAACAGGAGCTGGCACAAAGTGGCAGAG
GCCGIGTCTTCCCAGCTGGTGTGGGTGTGACCTGGCTAGAACCAGACTACCAGGTGTACCTGAATGCTTCCAAG
GTCCCGGGTTTGGCGATGACCCACAGAGCTGGCATGCCGGGTGGTGGACACGAAGAGTGGGGAGGCGAATGTC
CGATTACGGTTTTCGTGGTACTACAGGATGAACCGGCGCAGCGACAATGTGGTGACCAGCGAGCTGCTTGACGTC
ATGGACGGGGACTGGACGCTAAAAATATGGAGAGAGGAGCAAGCAGCGGGCCAGGATGGAGACTTTATTTTTTCT
AAGGAACATACAGACACGTTCAATTTCCGGATCCAAAGGACTACAGAGGAAGACAGAGGCAATTATTACTGTGTT
GTGTCTGCCTGGACCAACAGCGGAACAACAGCTGGGTGAAAAGCAAGGATGTCTTCTCCAAGCCTGTAAACATA
TTTTGGGCATTAGAAGATTCCGTGCTTGTGGTGAAGGCGAGGCAGCCAAAGCCTTTCTTTGCTGCCGGAATACA
TTTGAGATGACTTGCAAAGTATCTTCCAAGAATATTAAGTCGCCACGCTACTCTGTTCTCATCATGGCTGAGAAG
CCTGTGCGCGACCTCTCCAGTCCCAATGAAACGAAGTACATCATCTCTGACCAGGATTCTGTGGTGAAGCTG
GAGAATTGGACAGATGCATCACGGGTGGATGGCGTTGTTTTAGAAAAAGTGCAGGAGGATGAGTTCCGCTATCGA
ATGTACCAGACTCAGGTCTCAGACGCAGGGCTGTACCCTGCATGGTGACAGCCTGGTCTCCTGTGAGGGGCGAGC
CTTTGGCGAGAAGCAGCAACCAGTCTCTCCAATCCTATTGAGATAGACTTCCAACCTCAGGTCTATATTTAAT
GCTTCTGTGATTACAGACACACCATCAGTAATTCGGGGAGATCTGATCAAATTGTTCTGTATCATCACTGTGAG
GGAGCAGCACTGGATCCAGATGACATGGCCTTTGATGTGTCTGGTTTGGCGGTGCACTCTTTTGGCCTGGACAAG
GCTCCTGTGCTCCTGTCTTCCCTGGATCGGAAGGGCATCGTGACCACCTCCCGGAGGGACTGGAAGAGCGACCTC
AGCCTGGAGCGCGTGAGTGTGCTGGAATTCTTGCTGCAAGTGCATGGCTCCGAGGACCAGGACTTTGGCAACTAC
TACTGTTCCGTGACTCCATGGGTGAAGTCAACAACAGGTTCCCTGGCAGAAGGAGGCAGAGATCCACTCCAAGCCC
GTTTTTATAACTGTGAAGATGGATGTGCTGAACGCCCTCAAGTATCCCTTGCTGATCGGCGTGGTCTGTCCACG
GTCATCGGGCTCCTGTCTGTCTCATCGGGTACTGCAGCTCCCACTGGTGTGTAAGAAGGAGGTTTCAAGGAGACA
CGGCGCGAGCGCCGAGGCTCATGTGATGGAGATGGACTAGCCTGGCCCGGAGGGGAGTGACAGAGGGACGTT
CTAGGAGCAATTGGGGCAAGAAGAGGACAGTGATATTTAAAAACAAAGTGTGTTTAACTAAAAACCAAGTCTCTC
TAATCTCAGGTGGGACTTGGCGCTCTCTCTTTTCTGCATGTCAAGTTCTGAGCGCGGACATGTTTACCAGCACAC
GGCTCTTCTTCCACGGCACTTTCTGATGTAACAATCGAGTGTGTGTTTTCCCAACTGCAGCTTTTTAATGGTTA
ACCTTCATCTAATTTTTTTTTCTCCCACTGGTTTATAGATCCTCTGACTTGTGTGTGTTTATAGCTTTTGTTCGC
GGGGTTGTGGTGAGGAAGGGGTGATGGCATGCGGAGTCTTTATCTTCAGTGAGAAATGTGCCTGCCCGCCTGAGA
GCCAGCTTCCGCGTTGGAGGCACGTGTTTACAGAGAGCTGCTGAGCGCCACCCTCTACCCGGCTGACAGACAACACA
GACCTGTGCCGAAGGCTAATTTGTGGCTTTTACGACCCTACCCACCCCTGTTTTTCAAGGGGTTTAGACTACATT
TGAAATCCAACTTGGAGTATATAACTTCTTATTGAGCCCCAACTGCTTTTTTTTTTTTTTTTTTGTCTCTGTC
CCCTTTTCCATTTCTTTTGTATTTGTTTTCTGTGAGAGCACTGAAATGGCAGCCCTGGAATCTACAATTTGGCTC
TCCACTGAGCACCTTATCTTGCCACCTTAGCCTTAAGAATGAATATGAAGAAAAATACACAGCCACCTCTGTCCA
GGGCAGTAAGAAGGGCTGCAAGGAAGGGGAGGATGGGGACAAGGAAAGGATCAGATACCTGCTCCAGTAGTTGTG
AGGCCACTGTGTCTCAGGGGACTCCAGGAGGAGCAGAAGAGGGATCCACGAAGTTATTCTTACGCAGCTGGGGC
CAGGAGGGTCAGAGTGGTGCCAGGTGCAAGTTAGGCTAAAGAAGCCACCCTATTCTCTCTTGGCCATTGTG

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FIGURE 315B

GGGGGCAAAGGCATTGGTCACCAAGAGTCTTGCAGGGGGACCCACAGATATGCCATGTCCTTCACACGTGCTTGG
GCTCCTTAAACCTGAAGGCAAATTGCTACTTGCAAGACTGACTGACTTCAAGGAATCAGAAATTACCTAGAAGCAC
CATGTTTTTTCTATGACCTTTTCAGTCCTTCAGGTCATTTTAAAGGTCCACTGCAGGGGGTTAGTGAGAAAGGGTA
TACTTTGTGGTATGTTTTGCTTTCCTAATAGGGACATGAAGGAAACCCAGCAATTTGCTGTTATGTGAATGGCCT
GTAGAGCAGAGTCAAGAGCGGTGTGCTTTGCCGACTGCTCCCATCAGGAATAGGAGAGTAGACAGAGATCTTCC
ACATCCCAGGCTTCTGCTGCTGCTTTAAAAGCTCTGTCTTGGAGCCTCCCGCTCCCTGAAGTGTCTCGCCCCCT
GCACAGCACTGGCCTTTCGGAAGCATCCAGTAGGGTTTTCTGAGGCTCGCTGGTGACTCATGCCCTAATTGCAA
TCCTCTGCTTTTATCTTGACTTTGAAGGATCTAACACTGCTCTCTCTTCCAAAGGGGAAAAAAGATTCAATTTGT
TTTGAGCAATAAACTAATAACAAAATGATGGCCATTTCATGTGCAGCTCTTGTGCACCATGGGCCGGATGAGTTGTG
CTCCTCCTGGCTCACCATTTCCCCCTGCTCCCCACAGCCGGTTCTGCACCTTATCACCAGATCGCCCCCTGGAAGC
AGATTCCCATTGAGTTTTCCCCACCAAGGGGACCATGCACATGGTAGAAACATTAGATTCTGCATTGACAGTAGC
CTTTCCTTGGCCCCGGCCTGTGGTGGGAAGACGGGCAACAAGTATACCCACCAGGGCCTGAGTGACTAGAGGAA
GAGGACGAGGCCCTTGTGGCACTAGATTTGGGTATTTTCTGCATGTCATAACATATCCTAACTGCTATTTTCAGAA
GAGGCAGCTTGTAGGTGATTGTACAAGTGAGAATTAAAGAGAGAAACAGATATTTAAACAGGTGCTGTATTAGTAA
CAGCCAGTGCCCTTTCAGCCCTTGCACTCTATTAAAAGGAGATTTCAGGATTTTATTGGCACAGGCCCTTCTTAGTA
GGAAGAAAAGGTGCTTAGCTTTGGACCTGACCGGGTGTGTGTAACCATGGACTGAGTCACAGCAGACACTCGA
TGGTGGTAAATGTGATGGGTGCTTACACACTGTACCTTTTCTTTTCATACTGATGCTGCAGTTCAGGGCTGGAGT
TGTTAAGGCATTGACCTCCACCCACCTGCCCCATGTCCACTGGGCTGCCCAAGCTGCATGTCACCTGAGGGCTGG
CAGGAAGGGGCGAGAAATCCCAGGGCATTGTACCAAGGACCTAGTTTCTTCTAGGGATATAAATTTCCAGGAATG
TGTATTTTTTAATGTGGTGAGATGCACTCTTTTGTGTACCAATAGGGGCTCCCCACCCACCCCTGCGACAAGTG
CTCTTCTAGAACAGGTTCTTACCAGCAGCACTGGTGTGAATGAAAAGAGAGACCCAGCCGCGTCTCACACAGGTGG
AATTGCACTTCTTAACAAAAAGGAACTTTATAAAAGTTTTGGGATTTTTTTTTCTTAATCATAAAAAATAGCCCCAGA
AAGAGCCTAAGCTATGTTTCAAGATAGAAGCCTCGAAATTCCTGTAAATTGTTTACTTTTATGATGTTTACATACAG
TTTCACTTTGAAAAAAAATGCAAATCGACTTTTTTAACAACCTGTTGAGATGTTTCATGGGACAGTAGAACTCTGAC
TCACCAACTGGGCTAAATTTTTAATTTAAAAATGTATTTATTTGAGTGTCTTCCCCCCCCTCACCTCACCATCTG
AGGGGCTCCCTGAGATCTTGGTAGAGGAGGCCCTCTGCCCAGACCTTCGTTTGTGTTCCCGGTGGCCCTTGCT
TCTTGCTTTGCAGACTGCCTGCAGCCATGATTTTGTCACTGACATCTGTGAGCCAAAGACTGAGCCTTTTTGGCA
GGAATAATAAGCAATACTACACAACCTTGCTACTTTTCAGAAAACTTTTTTTTTAGCTTCACCGATGACAACAGAGGA
AGAAGGGAACCTGGGATTTGGGTAAAGTTCTCCTCCACTGTTTGACCAAATCTCAGTGATAAATATGTGTGCAGAT
CCCTAGAAGAGAAAACGCTGACTTTCTTTTAAAGTGTGGCACATAAGGATCTGCAGAATTTTCCGTAGACAAAGA
AAGGATCTTGTGTATTTTTGTCCATATCCAATGTTATATGAACATAATTGTATTGTTTTATACTGTGACCACAAAT
ATTATGCAATGCACCATTTGTTTTTTATTTTATTAAAGGAAGTTTAATTT

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FIGURE 316

MPDSTLPGSRVLARLDRDSLHSSPHVALSHVDARSYHLLVRDVSKENSGYYYCHVSLWAPGHNRSWHKVAEAVS
SPAGVGVTWLEPDYQVYLNASKVPGFADDPTELACRVVDTKSGEANVRFTVSWYYRMNRRSDNVVTSELLAVMDG
DWTLKYGERSKQRAQDGDGDFIFSKEHTDTFNFRIQRTTEEDRGNYICVVSATKQRNNSWVKSVDVFSKPVNIFWA
LEDSVLVVKARQPKPFFAAGNTFEMTCKVSSKNIKSPRYSVLIMAEPVGDLS SPNETKYIISLDQDSVVKLENW
TDASRVDGVVLEKVQEDEFYRMYQTQVSDAGLYRCMVTAWSPVRGSLWREAATSLSNPIEIDFQTSGPIFNASV
HSDTPSVIRGDLIKLFCIITVEGAALDPDDMAFDVSWFAVHSFGLDKAPVLLSSLDRKGIVTTSRRDWKSDLSLE
RVSVLEFLLQVHGSEDQDFGNYYCSVTPWVKSP TGSWQKEAIEH SKPVFITVKMDVLNAFKYPLLIGVGLSTVIG
LLSCLIGYCSSHWCCKKEVQETRRERRRLMSMEMD

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FIGURE 317

GTCCATTTTGTGCGGTAGAGGCAGAAGGAGAAGGTCGGATTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGG
TGTTTCGTGGGCTTTGTGCGGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCAACGTCGAGAGGGAGCC
GCTGCCGCGTTAGTTCCGAGCTTGAAGTCACTAGGACTTCTCTCAAACCTTGAGTGCTGAGGAGACTCAGATGTTG
GCCTCAGCTCCTAGGCTGAACTCAGCAGATCGGCCCATGAAAACCTTCTGTATTGAGACAAAGGAAGGGATCTGTC
AGAAAGCAACACTTGTATCTTGGGCTTGGCAGCAAGGAAGAGGACAGGTAGTGGAGATCCTGCAATCTGAAAAG
CAGACTGAAAGGTGACAAAGAAGCTGAAGATGGGTGGTAGAGAGAGGTATAACATTCCAGCCCCCTCAATCTAGAA
ATGTTAGTAAGAACCAACAACAGCTTAACAGACAGAAGACCAAGGAACAGAAATCCCAGATGAAGATTGTTTCATA
AGAAAAAAGAAAGAGGACATGGTTATAACTCATCAGCAGGTGCCTGGCAGGCCATGAAAAATGGGGGAAGAACA
AAAATTTTCCAAATAATCAAAGTTGGAATTCTAGCTTATCAGGTCCCAGCTTACTTTTTAAATCTCAAGCTAAAC
AGAACTATGCTGGTGCCAAATTTAGTGAGCCGCCATCACCAAGTGTTCTTCCCAAACCAAGCCACTGGGTCC
CTGTTTTCTTTAATCCTTCAGATAAGGAAATAATGACATTTCAACTTAAACCTTACTTAAAGTACAGGTATAAA
ATAAGACAAATGTTTAAAGTTAGTTATGTTTACAGATAGTTGTCAATTGGTCTGAAACAAATTTGCTAGGGAATC
TATTTGTGTAGAACTAATTAATGTAAAAAATAGACTTCATCTCGTGTTGTGTGCACTGTGATATAATGGTAGT
ATCAGTGCAACTTAAACTAATGATTGTAATTGATATTAAGTGTTCTCAACTGAGTAACTTTTAAAGTGGAACCAA
GTTTAGATTTGGGGAGTGGAAGGAATCAGCTTTTTCTATTGTTAGGGGAAGATAGTAATTTATCATTATGGA
CCAGTAGATTGTTGAAAGTTGGTGAATCGGATTATAAGCTTCTGGCTAACACAAGGATTCAGAATTAGGTAAACA
TCTGAAGGTTTAGTATATTAGAAACACCCAAACCAGTAATATGCTAACCTGATGCACTGCTGAAAGAAAATGTGA
ATTTTTCGTAATAATTGCATTTTAGTGAATTGTACAGTGGGTGGAAAGGGCATTGGAGCTCATTAGAATGAGAC
ATAGTACACCCCAATGGCCCTGTTTATTAAATGTAGTGGATTAAGTGTCTGTCAACAAATACACCAAACCATTT
TTTATAGAAACAGTATTTAATGGTCACTCAATAGCTTTCAAATACATTTTTTGTATTACAGCACTGCACAAGCTA
TTCTAATAGTGATCTGGCCTCCTCATTCTGCCAAGCTTGCTTTGGGGAGTTGGATAATGTGAAAATTTTAAAGTA
CCTAGGGGAGAAAGAGCCATGTAAATATCTGTAATAAACTTGTAGCATATGTAAAGTTTTCTTGGCCTTTATCTT
ACAAAAATGGAATATTTTAGTATGAATTTGCTGAATGTAAGACCGTGGACTGTTTTTTATAATATGGCCTAATTT
TAAAGGTCCAAATAAATTTGTTTTTAAAGTTTGCCCTTGCTGCTAAAGTGCCAGTGATGTATGTTATACTTGATT
TGTTTGTAACCTATATTTCAAAGTAAACCTAGTGTAATAAGTTTTATACTAAAAAGGTTTAAAGCTGCTAAAC
TATTTTTAAGAGATGTGAAATGCAGTATGGGACTATCTTTTTTCTCTCTAAGCCCAAAGATTAAGTAGAGTC
CCTCCAACCTTATAGATTTTTGGCTTTCACAATCTTATAACCTAGGATACAGGTAGTTTCGAGTATGGTGCCAGT
GATGTTTTGTTTTTGTGTTGGTCAAGGGTAGGTGCAACCCAATGGACCACTTATGCAAAAGATGTAACTCTTGC
ATAATACATCGATAACATGTTTTGCCAACTTTAAATGCTTAAACATAAGCGAAACCAGTAGCAAGTATGTGGGTC
AGTTTAAAAATTTTGATTGTTAATGCCCTATTTTCTAATTTGGCACCTCTTTTGATGCCTAAGCAGGTAAGCAGA
TGCCTAAGCTGTATTTCTCAAATAAATCAAGAGGAAGTACTGCCCAAGTTAAATATTGATAGCCTAAAGACAAA
TTCATGTAGTACTTAATGTACATGATATGAATTTGAAGCATAAATTAATTTTTTCCCCATTG

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FIGURE 318A

TTTCAGCCAAACTTCGGGCGGCGGCTGAGGCGGCGGCCGAGGAGCGGCGGACTCGGGGCGCGGGGAGTCGAGGCA
TTTGCGCCTGGGCTTCGGAGCGTAGCGCCAGGGCCTGAGCCTTTGAAGCAGGAGGAGGGGAGGAGAGAGTGGGGC
TCCTCTATCGGGACCCCTCCCCATGTGGATCTGCCAGGCGGCGGCGGCGGCGGCGGAGGAGGAGCGGACCGAG
AAGATGCCCCGCCCTGCGCCCCGCTCTGCTGTGGGCGCTGCTGGCGCTCTGGCTGTGCTGCGCGGCCCCCGCGCAT
GCATTGCAGTGTGAGATGGCTATGAACCTGTGTAAATGAAGGAATGTGTGTTACCTACCACAATGGCACAGGA
TACTGCAAATGTCCAGAAGGCTTCTTGGGGGAATATTGTCAACATCGAGACCCCTGTGAGAAGAACCGCTGCCAG
AATGGTGGGACTTGTGTGGCCCAGGCCATGCTGGGGAAAGCCACGTGCCGATGTGCCTCAGGGTTTACAGGAGAG
GACTGCCAGTACTCAACATCTCATCCATGCTTTGTGTCTCGACCCTGCCTGAATGGCGGCACATGCCATATGCTC
AGCCGGGATACCTATGAGTGCACCTGTCAAGTCGGGTTTACAGGTAAGGAGTGCCAATGGACGGATGCCTGCCTG
TCTCATCCCTGTGCAAATGGAAGTACCTGTACCACTGTGGCCAACCAAGTTCTCCTGCAAATGCCTCACAGGCTTC
ACAGGGCAGAAATGTGAGACTGATGTCAATGAGTGTGACATTCCAGGACACTGCCAGCATGGTGGCACCTGCCTC
AACCTGCCTGGTTTCTACCACTGCCAGTGCCTCAGGGCTTCACAGGCCAGTACTGTGACAGCCTGTATGTGCC
TGTGCACCCTCACCTTGTGTCAATGGAGGCACCTGTGCGCAGACTGGTGAATTTCACTTTTGTGAGTGCAACTGCCTT
CCAGGTTTTGAAGGGAGCACCTGTGAGAGGAATATTGATGACTGCCCTAACCAAGGTGTGAGAATGGAGGGGTT
TGTGTGGATGGGGTCAACACTTACAATGCCGCTGTCCCCACAATGGACAGGACAGTTCTGCACAGAGGATGTG
GATGAATGCCTGCTGCAGCCCAATGCCTGTCAAATGGGGGCACCTGTGCCAACCGCAATGGAGGCTATGGCTGT
GTATGTGTCAACGGCTGGAGTGGAGATGACTGCAGTGAGAACATTGATGATTGTGCCTTCGCTCCTGTACTCCA
GGCTCCACCTGCATCGACCGTGTGGCCTCCTTCTCTTGCATGTGCCAGAGGGGAAGGCAGGTCTCCTGTGTCTAT
CTGGATGATGCATGCATCAGCAATCCTTGCCACAAGGGGGCACTGTGTGACACCAACCCCTAAATGGGCAATAT
ATTTGCACCTGCCCCACAAGGCTACAAAGGGGCTGACTGCACAGAAGATGTGGATGAATGTGCCATGGCCAATAGC
AATCCTTGTGAGCATGCAGGAAAATGTGTGAACACGGATGGCGCCTTCCACTGTGAGTGTCTGAAGGGTTATGCA
GGACCTCGTTGTGAGATGGACATCAATGAGTGCCATTACAGCCCTGCCAGAATGATGCTACCTGTCTGGATAAG
ATTGGAGGCTTCACATGTCTGTGCATGCCAGTTTTCAAAGGTGTGCATTGTGAATTAGAAATAAATGAATGTCAG
AGCAACCCCTTGTGTGAACAATGGGCAGTGTGTGGATAAAGTCAATCGTTTTCCAGTGCCTGTGTCTCCTGTGTTTC
ACTGGGCCAGTTTGCCAGATTGATATTGATGACTGTTCCAGTACTCCGTGTCTGAATGGGGCAAAGTGTATCGAT
CACCCGAATGGCTATGAATGCCAGTGTGCCACAGGTTTTACTGGTGTGTTGTGTGAGGAGAACATTGACAACTGT
GACCCCGATCCTTGCCACCATGGTCACTGTGAGGATGGTATTGATTCCCTACACCTGCATCTGCAATCCCGGGTAC
ATGGGCGCCATCTGCAGTGACCAGATTGATGAATGTTACAGCAGCCCTTGCTGAACGATGGTCTGCTGCAATTGAC
CTGGTCAATGGCTACCAGTGCAACTGCCAGCCAGGCACGTGAGGGGTTAATTGTGAAATTAATTTGATGACTGT
GCAAGTAACCCCTTGTATCCATGGAATCTGTATGGATGGCATTAAATCGCTACAGTTGTGTCTGCTCACCAGGATTC
ACAGGGCAGAGATGTAAACATTGACATTGATGAGTGTGCCTCCAATCCCTGTGCAAGGGTGCAACATGTATCAAC
GGTGTGAATGGTTTTCCGCTGTATATGCCCCGAGGGACCCATCACCCAGCTGCTACTCACAGGTGAACGAATGC
CTGAGCAATCCCTGCATCCATGGAACCTGTACTGGAGGTCTCAGTGGATATAAGTGTCTCTGTGATGCAGGCTGG
GTTGGCATCAACTGTGAAGTGGACAAAAATGAATGCCTTTTGAATCCATGCCAGAATGGAGGAACTTGTGACAAT
CTGGTGAATGGATACAGGTGTACTTGCAAGAAGGGCTTTAAAGGCTATAACTGCCAGGTGAATATTGATGAATGT
GCCTCAAATCCATGCCTGAACCAAGGAACCTGCTTTGATGACATAAGTGGCTACACTTGCCACTGTGTGCTGCCA
TACACAGGCAAGAATTGTGAGACAGTATTGGCTCCCTGTTCCCAAACCCCTTGTGAGAATGCTGCTGTTTGCAA
GAGTCACCAAATTTTGAGAGTTACTTGCTTGTGTGCTCCTGGCTGGCAAGGTGAGCGGTGTACCATTGACATT
GACGAGTGTATCTCAAGCCCTGCATGAACCATGGTCTCTGCCATAACCCAGGGCAGCTACATGTGTGAATGT
CCACCAGGCTTCAGTGGTATGGACTGTGAGGAGGACATTGATGACTGCCTTGCCAATCCTTGCCAGAATGGAGGT
TCCTGTATGGATGGAGTGAATACTTCTCCTGCCTCTGCCTTCCGGGTTTCACTGGGGATAAGTGCCAGACAGAC
ATGAATGAGTGTCTGAGTGAACCTGTAAAGATGGAGGGACCTGCTCTGACTACGTCAACAGTTACACTTGCAAG
TGCCAGGCAGGATTTGATGGAGTCCATTGTGAGAACAACATCAATGAGTGCCTGAGAGCTCCTGTTTCAATGGT
GGCACATGTGTTGATGGGATTAACCTCTCTTGTGCTTGTGCCCTGTGGGTTTTCACTGGATCCTTCTGCCTCCAT
GAGATCAATGAATGCAGCTCTCATCCATGCCTGAATGAGGGAACGTGTGTTGATGGCCTGGGTACCTACCGCTGC
AGCTGCCCCCTGGGCTACACTGGGAAAAACTGTGACACCCTGGTGAATCTCTGCAGTCGGTCTCCATGTAAAAAC
AAAGGTACTTGCGTTTCAGAAAAAGCAGAGTCCCAGTGCCTATGTCCATCTGGATGGGCTGGTGCCTATTGTGAC
GTGCCCAATGTCTCTTGTGACATAGCAGCCTCCAGGAGAGGTGTGCTTGTGTAACACTTGTGCCAGCACTCAGGT

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FIGURE 318B

GTCTGCATCAATGCTGGCAACACGCATTACTGTTCAGTGCCCCCTGGGCTATACTGGGAGCTACTGTGAGGAGCAA
CTCGATGAGTGTGCGTCCAACCCCTGCCAGCACGGGGCAACATGCAGTGACTTCATTGGTGGATACAGATGCGAG
TGTGTCCCAGGCTATCAGGGTGTCAACTGTGAGTATGAAGTGGATGAGTGCCAGAAATCAGCCCTGCCAGAATGGA
GGCACCTGTATTGACCTTGTGAACCAATTTCAAGTGCTCTTGCCCACCAGGCACTCGGGGCTACTCTGTGAAGAG
AACATTGATGACTGTGCCCCGGGTCCCCATTGCCTTAATGGTGGTCAGTGTCATGGATAGGATTGGAGGCTACAGT
TGTCGCTGCTTGCCCTGGCTTTGCTGGGGAGCGTTGTGAGGGAGACATCAACGAGTGCCCTCTCCAACCCCTGCAGC
TCTGAGGGCAGCCTGGACTGTATACAGCTCACCAATGACTACCTGTGTGTTTGCCGTAGTGCCTTTACTGGCCGG
CACTGTGAAACCTTCGTGATGTGTGTCCCCAGATGCCCTGCCTGAATGGAGGGACTTGTGCTGTGGCCAGTAAC
ATGCCTGATGGTTTCATTTGCCGTTGTCCCCGGGATTTTCCGGGGCAAGGTGCCAGAGCAGCTGTGGACAAGTG
AAATGTAGGAAGGGGGAGCAGTGTGTGCACACCGCCTCTGGACCCCGCTGCTTCTGCCCCAGTCCCCGGGACTGC
GAGTCAGGCTGTGCCAGTAGCCCCTGCCAGCACGGGGCAGCTGCCACCCCTCAGCGCCAGCCTCCTTATTACTCC
TGCCAGTGTGCCCCACCATTCTCGGGTAGCCGCTGTGAACTCTACACGGCACCCCCCAGCACCCCTCCTGCCACC
TGTCTGAGCCAGTATTGTGCCGACAAAGCTCGGGATGGCGTCTGTGATGAGGCCTGCAACAGCCATGCCTGCCAG
TGGGATGGGGGTGACTGTTCTCTCACCATGGAGAACCCCTGGGGCAACTGCTCCTCCCCACTTCCCTGCTGGGAT
TATATCAACAACCAAGTGTGATGAGCTGTGCAACACGGTCGAGTGCCCTGTTTGACAACCTTTGAATGCCAGGGGAAC
AGCAAGACATGCAAGTATGACAAATACTGTGCAGACCACTTCAAAGACAACCACTGTGACCAGGGGTGCAACAGT
GAGGAGTGTGGTTGGGATGGGCTGGACTGTGCTGCTGACCAACCTGAGAACCTGGCAGAAGGTACCCTGGTTATT
GTGGTATTGATGCCACCTGAACAACCTGCTCCAGGATGCTCGCAGCTTCTTGCGGGCACTGGGTACCCTGCTCCAC
ACCAACCTGCGCATTAAGCGGGACTCCCAGGGGGAACTCATGGTGTACCCCTATTATGGTGAGAAGTCAGCTGCT
ATGAAGAAACAGAGGATGACACGCAGATCCCTTCCTGGTGAACAAGAACAGGAGGTGGCTGGCTCTAAAGTCTTT
CTGGAAATTGACAACCGCCAGTGTGTTCAAGACTCAGACCACTGCTTCAAGAACACGGATGCAGCAGCAGCTCTC
CTGGCCTCTCACGCCATACAGGGGACCCTGTATACCCCTCTGTGTCTGTCGTGAGTGAATCCCTGACTCCAGAA
CGCACTCAGCTCCTCTATCTCCTTGCTGTTGCTGTTGTATCATATTCTGTTTATTATTCTGCTGGGGTAATCATG
GCAAAACGAAAGCGTAAGCATGGCTCTCTCTGGCTGCCTGAAGGTTTCACTCTTCGCCGAGATGCAAGCAATCAC
AAGCGTCGTGAGCCAGTGGGACAGGATGCTGTGGGGCTGAAAAATCTCTCAGTGCAAGTCTCAGAAGCTAACCTA
ATTGGTACTGGAACAAGTGAACACTGGGTCGATGATGAAGGGCCCCAGCCAAAGAAAGTAAAGGCTGAAGATGAG
GCCTTACTCTCAGAAGAAGATGACCCCAATTGATCGACGGCCATGGACACAGCAGCACCTTGAAGCTGCAGACATC
CGTAGGACACCATCGCTGGCTCTCACCCCTCCTCAGGCAGAGCAGGAGGTGGATGTGTTAGATGTGAATGTCCGT
GGCCAGATGGCTGCACCCCAATTGATGTTGGCTTCTCTCCGAGGAGGCAGCTCAGATTTGAGTGTGAAGATGAA
GATGCAGAGGACTCTTCTGCTAACATCATCACAGACTTGGTCTACCAGGGTGCCAGCCTCCAGGCCCAGACAGAC
CGGACTGGTGAGATGGCCCTGCACCTTGCAGCCCGCTACTCACGGGCTGATGCTGCCAAGCGTCTCCTGGATGCA
GGTGCAGATGCCAATGCCAGGACAACATGGGCCGCTGTCCACTCCATGCTGCAGTGGCAGCTGATGCCCAAGGT
GTCTTCCAGATTCTGATTGCGAACCGAGTAACTGATCTAGATGCCAGGATGAATGATGGTACTACACCCCTGATC
CTGGCTGCCCCGCTGGCTGTGGAGGGAATGGTGGCAGAACTGATCAACTGCCAAGCGGATGTGAATGCAGTGGAT
GACCATGGAAAATCTGCTCTTCACTGGGCAGCTGCTGTCAATAATGTGGAGGCAACTCTTTTGTGTTGAAAAAT
GGGGCCAACCGAGACATGCAGGACAACAAGGAAGAGACACCTCTGTTTCTTGCTGCCCGGGAGGGGAGCTATGAA
GCAGCCAAGATCCTGTTAGACCATTTTGCCAATCGAGACATCACAGACCATATGGATCGTCTTCCCCGGGATGTG
GCTCGGGATCGCATGCACCATGACATTGTGCGCCTTCTGGATGAATACAATGTGACCCCAAGCCCTCCAGGCACC
GTGTTGACTTCTGCTCTCTCACCTGTCTGTGGGCCCAACAGATCTTTCCTCAGCCTGAAGCACACCCCAATG
GGCAAGAAGTCTAGACGGCCAGTGCCAAGAGTACCATGCCTACTAGCCTCCCTAACCTTGCCAAGGAGGCAAG
GATGCCAAGGGTAGTAGGAGGAAGAAGTCTCTGAGTGAGAAGGTCCAAGTGTCTGAGAGTTAGTAACCTTTATCC
CCTGTTGATTCCCTAGAATCTCCTCACACGTATGTTTCCGACACCACATCCTCTCCAATGATTACATCCCCTGGG
ATCTTACAGGCCTCACCCAACCTATGTTGGCCACTGCCGCCCCCTCCTGCCCCAGTCCATGCCCAGCATGCACTA
TCTTTTTTCTAACCTTCATGAAATGCAGCCTTTGGCACATGGGGCCAGCACTGTGCTTCCCTCAGTGAGCCAGTTG
CTATCCCACCACCAATTGTGTCTCCAGGCAGTGGCAGTGTGGAAGCTTGAGTAGGCTCCATCCAGTCCCAGTC
CCAGCAGATTGGATGAACCGCATGGAGGTGAATGAGACCCAGTACAATGAGATGTTTGGTATGGTCTGGCTCCA
GCTGAGGGCACCCATCCTGGCATAGCTCCCCAGAGCAGGCCACCTGAAGGGAAGCACATAACCACCCCTCGGGAG
CCCTTGCCCCCATTTGTGACTTTCCAGCTCATCCCTAAAGGCAGTATTGCCCAACCAGCGGGGGCTCCCCAGCCT

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FIGURE 318C

CAGTCCACCTGCCCTCCAGCTGTTGCGGGCCCCCTGCCACCATGTACCAGATTCCAGAAATGGCCCGTTTGCCC
AGTGTGGCTTTCCCCACTGCCATGATGCCCCAGCAGGACGGGCAGGTAGCTCAGACCATTCTCCCAGCCTATCAT
CCTTTCCCAGCCTCTGTGGGCAAGTACCCACACCCCTTCACAGCACAGTTATGCTTCCTCAAATGCTGCTGAG
CGAACACCCAGTCACAGTGGTCACCTCCAGGGTGAGCATCCCTACCTGACACCATCCCCAGAGTCTCCTGACCAG
TGGTCAAGTTCATCACCCTCTGCTTCTGACTGGTCAGATGTGACCACCAGCCCTACCCCTGGGGGTGCTGGA
GGAGGTCAGCGGGGACCTGGGACACACATGTCTGAGCCACCACACAACAACATGCAGGTATATGCGTGAGAGAGT
CCACCTCCAGTGTAGAGACATAACTGACTTTTGTAAATGCTGCTGAGGAACAAATGAAGGTCATCCGGGAGAGAA
ATGAAGAAATCTCTGGAGCCAGCTTCTAGAGGTAGGAAAGAGAAGATGTTCTTATTTCAGATAATGCAAGAGAAGC
AATTCGTACAGTTTCACTGGGTATCTGCAAGGCTTATTGATTATTCTAATCTAATAAGACAAGTTTGTGGAAATGC
AAGATGAATACAAGCCTTGGGTCCATGTTTACTCTCTTCTATTGAGAGAATAAGATGGATGCTTATTGAAGCCCA
GACATTCTTGACGCTTGGACTGCATTTTAAGCCCTGCAGGCTTCTGCCATATCCATGAGAAGATTCTACACTAGC
GTCCTGTTGGGAATTATGCCCTGGAATTCTGCCTGAATTGACCTACGCATCTCCTCCTCCTTGGACATTCTTTTG
TCTTCATTGTTGGTCTTTTGGTTTTGCACCTCTCCGTGATTGTAGCCCTACCAGCATGTTATAGGGCAAGACCTTT
GTGCTTTTGATCATTCTGGCCCATGAAAGCAACTTGGTCTCCTTTCCCTCCTGTCTTCCCGGTATCCCTTGG
GTCTCACAAGGTTTACTTTGGTATGGTTCTCAGCACAAACCTTTCAAGTATGTTGTTTCTTTGGAAAATGGACAT
ACTGTATTGTGTTCTCCTGCATATATCATTCTCGAGAGAGAAGGGGAGAAGAATACTTTTCTTCAACAAATTTT
GGGGGCAGGAGATCCCTTCAAGAGGCTGCACCTTAATTTTCTTGTCTGTGTGCAGGTCTTCATATAAACTTTAC
CAGGAAGAAGGGTGTGAGTTTGTGTTTTTCTGTGTATGGGCCTGGTCAGTGTAAAGTTTATCCTTGATAGTCT
AGTTACTATGACCTCCCCACTTTTTTAAAACAGAAAAAGGTTTGGAAATGTTGGAATGACCAAGAGACAAGTTA
ACTCGTGCAAGAGCCAGTTACCCACCCACAGGTCCCCCTACTTCTGCCAAGCATTCCATTGACTGCCTGTATGG
AACACATTTGTCCCAGATCTGAGCATTCTAGGCCTGTTTCACTCACTCACCAGCATATGAACTAGTCTTAACT
GTTGAGCCTTTTCTTTTATATCCACAGAAGACACTGTCTCAAATGTTGTACCCTTGCCATTTAGGACTGAACCTT
CCTTAGCCCAAGGGACCCAGTGACAGTTGTCTTCCGTTTGTGATGATCAGTCTCTACTGATTATCTTGCTGCT
TAAAGGCCTGCTACCAATCTTTCTTTCACACCGTGTGGTCCGTGTTACTGGTATACCCAGTATGTTCTCACTGA
AGACATGGACTTTATATGTTCAAGTGCAGGAATTGGAAGTTGGACTTGTTTTCTATGATCCAAAACAGCCCTAT
AAGAAGTTTGGAAAAGGAGGAACATATATAGCAGCCTTGTCTATTTCTGCTACCATTTCTTTTCTCTGAAGCGG
CCATGACATTCCTTTTGGCAACTAACGTAGAACTCAACAGAACATTTTCTTTTCTAGAGTCACCTTTTAGATG
ATAATGGACAACATATAGACTTGCTCATTGTTTCACTGATTGCCCTCACCTGAATCCACTCTCTGTATTTCATGC
TCTTGGCAATTTCTTTGACTTTCTTTTAAAGGGCAGAAGCATTTTAGTTAATTGTAGATAAAGAATAGTTTTCTTC
CTCTTCTCCTTGGGCCAGTTAATAATTGGTCCATGGCTACACTGCAACTTCCGTCCAGTGCTGTGATGCCCATGA
CACCTGCAAAATAAGTTCTGCCTGGGCATTTTGTAGATATTAACAGGTGAATTCCTGACTCTTTTGGTTTGAATG
ACAGTTCTCATTCTTCTATGGCTGCAAGTATGCATCAGTGCTTCCCACTTACCTGATTGTCTGTGCGGTGGCCC
CATATGGAACCCCTGCGTGTCTGTTGGCATAATAGTTTACAAATGGTTTTTTCAGTCCTATCCAAATTTATTGAA
CCAACAAAAATAATTACTTCTGCCCTGAGATAAGCAGATTAAGTTTGTTCATTCTCTGCTTTATTCTCTCCATGT
GGCAACATTCTGTCAGCCTCTTTCATAGTGTGCAACATTTTATCATTCTAAATGGTGACTCTCTGCCCTTGGAC
CCATTTATTATTACAGATGGGGAGAACCCTATCTGCATGGACCTCTGTGGACCACAGCGTACCTGCCCTTTCTG
CCCTCCTGCTCCAGCCCCACTTCTGAAAGTATCAGCTACTGATCCAGCCACTGGATATTTTATATCCTCCCTTTT
CCTTAAGCACAAATGTCAGACCAATTGCTTGTCTTTTCTTTTCTTGGACTACTTTAATTGGATCCTTTGGGTTTGG
AGAAAGGGAATGTGAAAGCTGTCAATTACAGACAACAGGTTTCAGTGATGAGGAGGACAACACTGCCTTTCAAAC
TTTTACTGATCTCTTAGATTTTAAAGAACTCTTGAATTGTGTGGTATCTAATAAAAGGGAAGGTAAGATGGATAAT
CACTTTCTCATTGTTGGTCTGAATTGGAGACTCAGTTTTTATGAGACACATCTTTATGCCATGTATAGATCCTC
CCCTGCTATTTTTGTTTATTTTTATTGTTATAAATGCTTTCTTTCTTGGACTCCTCTCTGCTGCCTTTGGGG
ATAGGTTTTTTTTGTTTATTGCTTCCCTCTGTTTTGTTTTAAGCATATTTCTTATGTGAGGTGGGGAAGG
GAAAGGTATGAGGGAAAGAGAGTCTGAGAATTAATAATTTTAGTATAAGCAATTGGCTGTGATGCTCAAATCCA
TTGCATCCTCTTATTGAATTTGCCAATTTGTAATTTTGCATAATAAAGAACCAGGTGTAATGTTTTGTTGAG
AGGTGGTTTTAGGGATTTGGCCCTAACCAATACATTGAATGTATGATGACTATTTGGGAGGACACATTTATGTAC
CCAGAGGCCCCCACTAATAAGTGGTACTATGGTTACTTCTTGTGTACATTTCTCTTAAAGTGATATTATATCT
GTTTGTATGAGAAACCCAGTAACCAATAAATGACCGCATATTCTGACTAAACGTAGTAAGGAAATGCACACT

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FIGURE 318D

TTGTTTTTACTTTTCCGTTTCATTCTAAAGGTAGTTAAGATGAAATTTATATGAAAGCATTTTTATCACAAAATA
AAAAAGGTTTGCCAAGCTCAGTGGTGTTGTATTTTTTATTTTCCAATACIGCATCCATGGCCTGGCAGTGTTACC
TCATGATGTCATAATTTGCTGAGAGAGCAAATTTTCTTTTCTTTCTGAATCCCACAAAGCCTAGCACCAAACCTTC
TTTTTTTCTTCCTTTAATTAGATCATAAATAAATGATCCTGGGGAAAAAGCATCTGTCAAATAGGAAACATCACA
AAACTGAGCACTCTTCTGTGCACTAGCCATAGCTGGTGACAAACAGATGGTTGCTCAGGGACAAGGTGCCTTCCA
ATGGAAATGCGAAGTAGTTGCTATAGCAAGAATTGGGAAC TGGGATATAAGTCATAATATTAATTATGCTGTTAT
GTAAATGATTGGTTTGTAACATTCCTTAAGTGAAATTTGTGTAGAACTTAATATACAGGATTATAAAATAATATT
TTGTGTATAAATTTGTTATAAGTTCACATTCATACATTTATTTATAAAGTCAGTGAGATATTTGAACATG

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FIGURE 319

GAGGAGGAGGAGGAGATGACTGGGGAGCGGGAGCTGGAGAATACTGCCCAGTTACTCTAGCGCGCCAGGCCGAAC
CGCAGCTTCTTGGCTTAGGTACTTCTACTCACAGCGGCCGATTCCGAGGCCAACTCCAGCAATGGCTTTTGCAAA
TCTGCGGAAAGTGCTCATCAGTGACAGCCTGGACCCTTGCTGCCGGAAGATCTTGCAAGATGGAGGGCTGCAGGT
GGTGAAAAGCAGAACCTTAGCAAAGAGGAGCTGATAGCGGAGCTGCAGGACTGTGAAGGCCTTATTGTTTCGCTC
TGCCACCAAGGTGACCGCTGATGTCATCAACGCAGCTGAGAACTCCAGGTGGTGGGCAGGGCTGGCACAGGTGT
GGACAATGTGGATCTGGAGGCCGCAACAAGGAAGGGCATCTTGGTTATGAACACCCCCAATGGGAACAGCCTCAG
TGCCGCAGAACTCACTTGTGGAATGATCATGTGCCTGGCCAGGCAGATTCCCCAGGCGACGGCTTCGATGAAGGA
CGGCAAATGGGAGCGGAAGAAGTTCATGGGAACAGAGCTGAATGGAAAGACCCTGGGAATTCCTTGGCCTGGGCAG
GATTGGGAGAGAGGTAGCTACCCGGATGCAGTCCTTTGGGATGAAGACTATAGGGTATGACCCCATCATTTCCCC
AGAGGTCTCGGCCTCCTTTGGTGTTTCAGCAGCTGCCCTGGAGGAGATCTGGCCTCTCTGTGATTTTCATCACTGT
GCACACTCCTCTCCTGCCCTCCACGACAGGCTTGCTGAATGACAACACCTTTGCCAGTGCAAGAAGGGGGTGCG
TGTGGTGAAGTGTGCCCGTGGAGGGATCGTGGACGAAGGCGCCCTGCTCCGGGCCCTGCAGTCTGGCCAGTGTGC
CGGGGCTGCACTGGACGTGTTTACGGAAGAGCCGCCACGGGACCGGGCCTTGGTGGACCATGAGAATGTCATCAG
CTGTCCCCACCTGGGTGCCAGCACCAAGGAGGCTCAGAGCCGCTGTGGGGAGGAAATTGCTGTTTCAGTTCGTGGA
CATGGTGAAGGGGAAATCTCTCACGGGGGTTGTGAATGCCAGGCCCTTACCAGTGCCTTCTCTCCACACACCAA
GCCTTGGATTGGTCTGGCAGAAGCTCTGGGGACACTGATGCGAGCCTGGGCTGGGTCCCCAAAGGGACCATCCA
GGTGATAACACAGGGGAACATCCCTGAAGAATGCTGGGAAGTGCCTAAGCCCCGAGTCATTGTCGGCCTCCTGAA
AGAGGCTTCCAAGCAGGCGGATGTGAAGTGGTGAACGCTAAGCTGCTGGTGAAAGAGGCTGGCCTCAATGTCAC
CACCTCCACAGCCCTGCTGCACCAGGGGAGCAAGGCTTCGGGGAATGCCTCCTGGCCGTGGCCCTGGCAGGCGC
CCCTTACCAGGCTGTGGGCTTGGTCCAAGGCACTACGCCTGTACTGCAGGGGCTCAATGGAGCTGTCTTCAGGCC
AGAAGTGCCTCTCCGCAGGGACCTGCCCCTGCTCCTATTCCGGACTCAGACCTCTGACCCTGCAATGCTGCCTAC
CATGATTGGCCTCCTGGCAGAGGCAGGCGTGCGGCTGCTGTCTACCAGACTTCACTGGTGTGAGATGGGGAGAC
CTGGCACGTATGGGCATCTCCTCCTTGCTGCCCAGCCTGGAAGCGTGGAAGCAGCATGTGACTGAAGCCTTCCA
GTTCCACTTCTAACCTTGGAGCTCACTGGTCCCTGCCTCTGGGGCTTTTCTGAAGAAACCCACCCACTGTGATCA
ATAGGGAGAGAAAATCCACATTCTTGGGCTGAACGCGGGCCTCTGACACTGCTTACACTGCACTCTGACCCTGTA
GTACAGCAATAACCGTCTAATAAAGAGCCTACCCCC

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FIGURE 320

MAFANLRKVLISDSLDPCCRKILQDGGQLQVVEKQNLKEELIAELQDCEGLIVRSATKVTADVINAEEKLVVGR
AGTGVDNVDLEAATRKGILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKGKWERKKFMGTELNGKTLGI
LGLGRIGREVATRMQSFGMKTIGYDPIISPEVSASFQVQQLPLEEIIWPLCDFITVHTPLLPSTTGLLNDNTFAQC
KKGVRVVNCARGGIVDEGALLRALQSGQCAGAAALDVFTTEPPRDALVDHENVISCPHLGASTKEAQSRCGEEIA
VQFVDMVKGKSLTGVVNAQALTSASFSPHTKPWIGLAEALGTLMLRAWAGSPKGTIQVITQGTSLKNAGNCLSPAVI
VGLLKEASKQADVNLVNAKLLVKEAGLNVTTSHSPAAPGEQGFGECLLAVALAGAPYQAVGLVQGTTPVLQGLNG
AVFRPEVPLRRDLPLLLFRTQTS DPAMLPMTMIGLLAEAGVRLLSYQTSLVSDGETWHVMGISSLLPSLEAWKQHV
TEAFQFHF

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FIGURE 321

GGGCAGGGGTGCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGG
GGGCGCGGGCCGGGGTGGGCTTCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTT
GGACCGGATGGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCC
CCCTGCCCCGCACTCGGAGCACCCACCCCTCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCG
GTGGAGGCCCCGGCCGGGCGGCCCGCCATGAACGGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCC
CTCCCTGCCCCGGCCGCATCGCTGCCAAGCTCGCCTTCCTGCCGCCGAGGCCACCTACTCCCTGGTGCCCTGAGC
CCGAGCTGGGGCCTGGTGGGGCCGGGGCCGCCCTTGGGGACCTTGAGAGCCTCCTCGGGCGCACCCGGGCGCT
GGAAGCTGCACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCA
CCAAGAGCGCCCGCGGCAACCGTGTCTCCTGCATGTATGTTGCTGCGTGCCCTGGTGCCAGGTACACGGTCCCTCT
TCTCGCACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCA
ACATCTTACCTACGACTCCTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACA
TCGACGCCACCTGGCAGGCCCTGCGCACCAAGGTACGGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCA
TCGGCACGGTGCCACCATGGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCT
CGGGCATGCGCGTGCCTTCCGCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGT
CCAAGATCACGTCTCCCGTGCTCATCATCCACGGCAGGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGC
TCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACA
GCCAGTACCTGGAGCGCCTGCGTGCCTTCATCTCCCAGGAGCTGCCAGCCAGCGCGCTTAGCGGCGGCCCAAC
CAGCCGGACCTCAGCAATAAGGCGGCCCCCGGACCTCACC CGCGCGGCCCCACCCAGGGGCTGCATGTGGAC
CCCCCGGGCGGCCAGGGGACCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACT
CCTTTCCTTTTGAAGCAAGAAGAAATACGTGAAAACGGAATTAAGATTAAAATT

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FIGURE 322

MNGLSLSELCCLFCCPPCPGRIAAKLAFLPPEATYSLVPEPELGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIIEVFPTKSARGNRVSCMYVRCVPGARYTVLFSHGNAVDLGQMSSFYIGLGSRLHCNIFTYDSSGY
GASSGRPSEARNLYADIDATWQALRTRYGISPDSIILYGQSIGTVPTMDLASRYECAAVVLHSPLTSGMRVAFRDT
KKTYCFDAFPNIEKVSKITSPVLIHGREDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRF
ISQELPSQRA

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FIGURE 323A

AGCGTGAACCTGGGAGGCAGAGCTTGCAGTGAGCCTAGATCGCGTCACTGCACTCCAGCCTGGGAGACAGAGTGA
GACTCTGTCTCAAAAAAAAAAAAAAGTCAAAACAAGAGAACATACTAAATGATTCCATTTTTTTTATTTATGACTT
CATGACTACCATTAAAGAAAATATAACCTGTTGGGAAACTGTTTCTGCCTTGATGATGTTGTACAGACAAGAGATA
AACAGTGAGGAATGTGCTTAGATGTATTGGGAAAGACACGGGTCTGTGGCATTGTCACAAGGGTACACGAATACT
GAGAGTGAATGCTGAAGGAATGATCCCCATTGGTGGTGACCCCTCAGGTGAGACTAGGGTGCCTGTGTTTCAGCAA
AGCCTGGGCAATTGGAATGCAGGGCTCCTAAGATTCCATGACACCCCCACCTTCTAATTCTGTTATTGCAACTGC
AGACCGTTACCTGGCACGCTGGCCACAATCTACCTCACTCTTATCAGAGTCTGAGCTACTGGCAGTGCTTTTCAGC
TCTGAGTTGAGGCACCTCGAACCTTGTTTTTGTGGTGAAGGATCCTAAAGTGCTGTGGGAGTGATCACATTTTTTC
ACAACAGTAAGTCCCTGACTCCACCTCTTCTGCCACAAACGTCAGCATGGTGGTATCAGCCGGCCCTTGGTCCAG
CGAGAAGGCAGAGATGAACATTCTAGAAATCAACGAGAAATTGCGCCCCAGTTGGCAGAGAACAACAGCAGTT
CGTAAACCTCAAAGAGATGTTTTCTAACTCAACTGGCCGGCTTCTTGCCCAACCGACAGAAGAAATACAGCAATA
TAAAGTCCTGTTCACTCTCAGGAACGAGAGCTGACGCAGTTAAAGGAGAAGTTACAGGAAGGGAGAGATGCCTC
CCGCTCATTGAATGAGCATCTCCAGGCCCTCCTCACTCTGGATGAGCCGGACAAGTCCCAGGGGCAGGACCTCCA
AGAACAGCTGGCTGAGGGGTGTAGACTGGCACAGCACCTTGTCCAAAAGCTCAGCCCAGAAAATGACGAAGATGA
GGATGAAGATGTTCAAGTTGAGGAGGATGAGAAAGTGCAAGAAATCATCTGCCCCCAGGGAGGTGCAGAAGGCTGA
AGTGAGCAAAGTCCCTGAGGACTCACTGGAGGAATGTGCCATCACTTGTTCAAATAGCCACGGCCCTTGTGACTC
CAACCAGCCTCACAAGAACATCAAAATCACATTTGAGGAAGACGAAGTCAACTCAACTCTGGTTGTAGACAGAGA
ATCCTCTCATGATGAATGTCAGGATGCTCTAAACATTCTCCAGTCCCTGGCCCCACCTCTTCTGCCACAAACGT
CAGCATGGTGGTATCAGCCGGCCCTTTGTCCAGCGAGAAGGCAGAGATGAACATTCTAGAAATCAATGAGAAATT
GCACCCCCAGCTGGCAGAGAAGAAACAGCAGTTTCAGAAACCTCAAAGAGAAATGTTTTCTAACTCAACTGGCCGG
CTTCTTGCCCAACCCAGCAGAACAAATACAAGTATGAAGAGTGTAAGACCTCATAAAATTTATGCTGAGGAATGA
GCGACAGTTCAAGGAGGAGAAGCTTGAGAGCAGCTGAAGCAAGCTGAGGAGCTCAGGCAATATAAAGTCTGGT
TCACGCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAGTTGCGGGAAGGGAGAGATGCCTCCCGCTCATTGAA
TGAGCATCTCCAGGCCCTCCTCACTCCGGATGAGCCGGACAAGTCCCAGGGGCAGGACCTCCAAGAACAGCTGGC
TGAGGGGTGTAGACTGGCACAGCACCTTGTCCAAAAGCTCAGCCCAGAAAATGACAACGATGACAATGAAGATGT
TCAAGTTGAGGTGGCTGAGAAAGTGCAAGAAATCGTCTGCCCCCAGGGAGATGCAGAAGGCTGAAGAAAAGGAAGT
CCCTGAGGACTCACTGGAGGAATGTGCCATCACTTATTCAAATAGCCATGGCCCTTATGACTCCAACCAGCCACA
TAGGAAAACCAAATCACATTTGAGGAAGACAAAGTCGACTCAACTCTCATTGGCTCATCCTCTCATGTTGAACG
GGAAGATGCTGTACACATTATTCAGAAAATGAAAGTGATGATGAGGAAGAGGAAGAAAAGGGCCAGTGTCTCC
CAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGTCCCCAGGAGTCTGGGATGAAGGTTATTGACTCCCTCAAT
TCCTCCTGAAAATGTTGGCCTCGTACAAGTCTTACAGCAGCACATTTCACTCATTAGAGGAACAGCAAGTCTGCAT
GGCTGTTGACATAGGCAGACATCGGTGGGATCAAGTGAAAAAGGAGGACCAAGAGGCAACAGGTCCCAGGCTCAG
CAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGAGGACTCACTGTATAGATGTTATTCAACTCCTTCAGG
TTGTCTTGAACTGACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACGTATTGGAGCAACAGCGTGTGGCTT
GGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCAAGACCCATCATGCCCCAGGCTCAG
CAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGAGGACTCACTGGGTAGATGGTATTCGACTCCTTCAGG
TTATCTTGAACTGCCTGACTTAGGCCAGCCCTACAGCAGTGCTGTTTACTCATTGGAGGAACAGTACCTTGGCTT
GGCTCTTGACTTGACAGAATTAAAAAGGACCAAGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAG
CAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGAGGACTCACTGGATAGATGTTATTCAACTCCTTCAG
TTGTCTTGAAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCTTTTTATGCATTGGAGGAAAAACATGTTGGCTT
TTCTCTTGACGTGGGAGAAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGGAAAG
AAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAACCCACCATGCCCCAGGCTCAACGGCGTGCTGATGGAAGT
GGAAGAGCCTGAAGTCTTGAGGACTCACTGGATGGATGTTATTCTACTCCGTCAATGTACTTTGAACTACCTGA
CTCATTCCAGCACTACAGAAGTGTTTTACTCATTTGAGGAACAGCACATCAGCTTCGCCCTTTACGTGGACAA
TAGGTTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTGTTCAGATGGAAGTCATATTCCACAATAAGCAGC
CCTTACTAAGCCGAGAGATGTCATTCTGCAGGCAGGACCTATAGGCACGTGAAGATTTGAATGAACTACAGTT
CCATTTGGAAGCCAGACATAGGATGGGTGAGTGGGCATGGCTCTATTCTTCTCAAACCATGCCAGTGGCAA
CCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTTACATAACTGTGCAGCACATGCCGGGA

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FIGURE 323B

GTGATCAGTCAGACATTTTAATTTGAACCACGTATCTCTGGGTAGCTACAAAATTCCTCAGGGATTTTCATTTTGC
AGACATGTCTCTGAGCTTCTATACCTGCTCAAGGTCATTGTCATCTTTGTGTTTAGCTCATCCAAAGGTGTTACC
CTGGTTTCAATGAACCTAACCTCATTCTTCGTGTCTTCAGTGTTGGCTTGTTTTAGCTGATCCATCTGTAACACA
GGAGGGATCCTTGGCTGAGGATTGTATTTCAGAACCACCAACTGCTCTTGACAATTGTTAACCCGCTAGGCTCCT
TTGGTTAGAGAAGCCACAGTCCTTCAGCCTCCAATTGGTGTCAGTACTTAGGAAGACCACAGCTAGATGGACAAA
CAGCATTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAACAGGAGTCAGGAGCCGCTGGCAGG
AGACAGCATGTCACCCAGGACTCTGCCGGTGCAGAAATGAACAATGCCATGTTCTTGCAGAAAACGCTTAGCCT
GAGTTTCATAGGAGGTAATCACCAGACAACTGCAGAAATGTAGAACACTGAGCAGGACAACTGACCTGTCTCCTTC
ACATAGTCCTTATCACCACAAATCACACAACAAAAAGGAGAAGAGATATTTTGGGTTCAAAAAAGTAAAAAGAT
AATGTAGCTGCATTTCTTTAGTTATTTTGAACCCCAAATATTTCTCATCTTTTTGTTGTTGTCATGGATGGTGG
TGACATGGACTTGTTTATAGAGGACAGGTGAGCTGTCTGGCTCAATGATCTACATTCTGAAGTTGTCTGAAAATG
TCTTCATGATTAAATTCAGCCTAAACGTTTTGCCGGGAACACTGCAGAGACAATGCTGTGAGTTTCCAACCTCAG
CCCATCTGCGGGCAGAGAAGGTCTAGTTTGTCCATCACCATTATGATATCAGGACTGGTTACTTGGTAAAGGAGG
GGTCTAGGAGATCTGTCCCTTTTAGAGACACCTTACTTATAATGAAGTACTTGGGAAGCGGTTTTCAAGAGTAT
AAATATCCTGTATTCTAATGATCATCCTCTAAACATTTTATCATTATTAATCCTCCCTGCCTGTGTCTATTATT
ATATTCATATCTCTACGCTGCAAATTTTGGGTCTCAATTTTACTGTGCCTTTGTTTTTACTAGTGTCTGCTGTT
GCAAAAAGAAGAAAACATTCTCTGCCTGAGTTTAAATTTTGTCCAAAGTTAATTTTAATCTATACAATTAAAC
CTTTTGCCTATCACTCTGGACTTTTGGATTGTTTTTACATTCAGTGTTATAATATTTGATTATGCTGATTGGTT
TTGGTGGGTACTGATGCGAATTAATAAAAACATTTTCATTTCC

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FIGURE 324A

GTTTTGTAAC TCAACTGGCCGGCTTCCTGGCCAAGCAGCAGAACAATACAAATATGAAGAGTGCAAAGACCTCA
TAAATCTATGCTGAGGAATGAGCTACAGTTCAAGGAGGAGAAGCTTGACAGAGCAGCTGAAGCAAGCTGAGGAGC
TCAGGTGAGGGGACCCCATGGGGGCAGGCAGGGGGGCAGGTGTGTAAATCTCTGAAGTACAACAGCTCGGTGGGG
AGACTTAAGAGCTAAGCTGGGCCAGGGGAAGGGCAGGAATTGCCATGGCAGGCTCGCTACACACAAATATTTATC
AAACAGAGAAGAAGGATAATAAAAAATTTATGGGTTGCAGTGTTCCTCAGAGCCTGTTTTCTTTTTTCAAACAAGT
AATGTTGATGTGAAATTTACATAACACAAAAATTAACCAAAGGAGTGTGAACCACACAGCAGCATTCACTATACTC
AAAATGGTGTGCCATCACCACCCCACTTACCCTAGTGAGAATCACCTCCTGACTGACTGCGGCTTCTCATTCTTT
CACTCAATCAATGTTGCCTTCTCGACCTGTCTATTCTTTTCTTCTTTCTGCTTTTTCAATTGCCCCATCTGCATC
TGGCCTCATTTCTGTACATGGCTTTGTATCTAATGGCCGCAAGATGCACTATGTGTATTTTACATGGAAATGTC
CATGGCCAGAGTGAGGAAC TGAAGGATGTCTTTTTGAAACGGAATTAGGAAGACACCTACTTTTGTTTACAGAG
GGGAAAGATGAATGGAACATCATCGAGGATCTTGACAGGAGCCCTCTCTGATACAGAGGAAGCCTGTAAACCATT
TCTATTCTTTCTCTTGGCCACAGACATTCCTTTCAACATGTGCTGACCTTCTGCTTGGAGGTCTCCTTGAGGACA
TTGTCTCAGAAATCTCTGTTGCAATATTTGAACGGATCACTCAACCTTTTCACTCTTAAATTTTCTCTACCGTC
TCACCTTAGGCAATATAAAGTCCTGGTCACTCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAAGTTACGGGA
AGGGAGAGATGCCTCCCGCTCATTGAATGAGCATCTCCAGGCCCTCCTCACTCCGGATGAGCCGGACAAGTCCCA
GGGGCAGGACCTCCAAGAACAGCTGGCTGAGGGGTGTAGACTGGCACAACACCTTGTCCAAAAGCTCAGCCCAGA
AAATGATAACGATGACGATGAAGATGTTCAAGTTGAGGTGGCTGAGAAAGTGCAGAAATCGTCTTCCCCCAGGGA
GATGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTCACTGGAGGAGTGTGCCATCACTTGTTCAAATAGCCA
TGGCCCTTATGACTCCAACAGCCACATAGGAAAACCAAATCACATTTAGGAAGACAAAAGTCGACTCAACTCT
CATTGGCTCATCCTCTCATGTTGAATGGGAGGATGTGTACACATTATCCAGAAAATGAAAGTGATGATGAGGA
AGAGGAAGAAAAGGGCCAGTGTCTCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGTCCCCCAGGAGTCTCTG
GGATGAAGGTTATTTCGACTCTCTCAATTCCTCCTGAAAGGTTGGCCTCATACCAGTCTTACAGCAGCACATTTCA
CTCATTAGAGGAACAGCAAGTCTGCATGGCTGTTGACATAGGCAGACATCGGTGGGATCAAGTGAAAAAGGAGGA
CCAAGAGGCAACAGGTCCAGGCTCAGCAGGGAGCTGCTGGCTGAGAAAGAGCCTGAAGTCTTGCAGGACTCACT
GGATAGATGTTATTCAACTCCTTCAGTTTATCTTGGACTGACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTA
CGTATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGA
CCAAGACCCATCATGCCCCAGGCTCAGCAGGGAGCTGCTGGCTGAGAAAGAGCCTGAAGTCTTGCAGGACTCACT
GGATAGATGTTATTTCGACTCCTTCAGTTTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGAAGTGCTGTTTA
CTCATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTA AAAAGGACCAAGAAGAGGAAGA
CCAAGGCCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGCAGGACTCACT
GGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTACAGAAGTTCCTTTTA
TGCATTGGAGGAAAAACATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAG
AAGGGGAAGAAGATCAAAGAAGAAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAACCCACCATGCCC
CAGGCTCAACAGCGTGCTGATGGAAGTGGAAGAGCCTGAAGTCTTGCAGGACTCACTGGATAGATGTTATTTCGAC
TCCATCAATGTACTTTGAACTACCTGACTCATTCCAGCACTACAGAAGTGTGTTTTACTCATTGAGGAACAGCA
CATCACCTTTGCCCTTGACATGGACAATAGCTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTCTTCCAGAT
GGGAGTCATATTCCACAATAAGCAGCCCTTACTAAGCCGAGAGGTGTCTATTCTGCAGGCAGGACCTATAGGCA
CCTGAAGATTTGAATGAACTATAGTTCCATTTGGAAGCCAGACATAGGATGGGTGAGTGGGCATGGCTCTATT
CCTATTCTCAGAGCATGCCAGTGGCAACCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTT
CACATAACTGTGCAGCACATGCCGGGAGTGATCAGCCGGACATTTTAAATTTGAACCATGTATCTCTGGGTAGCTA
CAAAATTCCTCAGGGATTTCAATTTGCAGGCATGTCTCTGAGCTTCTATACCTACTCAAGGTGAGTGTCTCTTT
GTGTTTAGTTTATCCAAAGGTGTTACCCTGGTTTCAATGAACCTAACCTCATTATTTGTGTCTTCAGTGTGGCT
TGTTTTAGCTGATCCATCTGTAACACAGGAGGGATCCTTGGCTGAGGATTGTATTTTCAAGAACCACTGCTCT
TGACAATTGTTAACCCGCTAGGCTCCTTTGGTTAGAGAAGCCACAGTCCTTCAGCCTCCAATTGGTGTCAGTACT
TAGGAAGACCACAGCTAGATGGACAAACAGCATTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGA
GAACAGGAGTCAGGAGCCGCTGGCAGGAGACAGCATGTCACCCAGGACTCTGCCGGTGACAGAATATGAGCAATGC
CATGTTCTTGACAGAAAACGCTTAGCCTGAGTTTCATAGGAGGTAATCACCAGACAACTGCAGAATGTAGAACACT
GAGCAGGACAACTGACCTGTCTCCTTCACATAGTCCATATCACCACAAATCACACAACAAAAGGAGAAGAGATA

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FIGURE 324B

TTTTGGGTTGAAAAAAGTAAAAAGATAATTAGCTGCATTTCTTTAGTTATTTTGAACCCCAAATATTTCTCAT
CTTTTTGTTGTTGTCATTGATGGTGGTGACATGGACTTGTTTATAGAGGACAGGTCAGCTCTCTGGCTCAATGAT
CTACATTCTGAAGTTGTCTGAAAATGTCTTCATGATTAAATTCAGCCTAAACTTTTTGCTGGGAACACTGCAGAG
ACAATGCTGTGAGTTTCCAACCTCAGCCCATCTGCGGGCAGAGAAGGTCTAGTTTGTCCATCACCATTATGATAT
CAGGACTGGTTACTTGGTTAAGGAGGGGTCTAGGAGATCTGTCCCTTTTAGAGACACCTTACTTATAATGAAGTA
CTTGGGAAAGCGGTTTTCAAGAGTATAAATATCCTGTATTCTAATGATCATCCTCTAAACATTTTATCATTATT
AATCCTCCCTGCCTGTGTCTATTATTATATACATATCTCTACGCTGCAAATTTGGGTCTCAATTTTACTGTGC
CTTTGTTTTTACTAGTGTCTGCTGTTGCAAAAAGAAGAAAACATTCTCTGCCTGAGTTTAAATTTTGTCCAAAG
TTAATTTTAATCTATACAATTAAAACCTTTTGCCTATC

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FIGURE 325

MLRNELQFKEEKLAELKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLNEHLQALLTPDEPDKSQGQDL
QEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSSPREMOKAEKEVPEDSLEECAITCSNSHGPYD
SNQPHRKTKITFEEDKVDSTLIGSSSHVEWEDAVHIIPENESDDEEEEKGPVSPRNLQESEEEVPQESWDEGY
STLSIPPERTSVGSSEKGGPRGNRSQAQQAAG

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FIGURE 326

CTCCGCGGTCTTCTGAGCGGTACGTTGAACGGCTTCCTGCAGGCTGGCCATGGCGCTTCAAGTTCCCAAGGCTCC
GGGCTTCGCCCAGATGCTCAAGGAGGGAGCGAAACACTTTTCAGAATTAGAAGAGGCTGTGTATAGAAACATACA
AGCTTGCAAGGAGCTTGCCCAAACCACTCGTACAGCATATGGACGAAATGGAATGAAAAAATGGTTATCAACTA
CTTGGAGAAGTTGTTTGTGACAAATGATGCAGCGACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAA
AATGACTGTAATGGCTTCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAAACATTGTTCTGGTATTTGCTGG
AGCTCTCCTGGAATTAGCTGAAGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAAT
AGCTTGCAAGAAAGCTCATGAGATTCTTCCTAATTTGGTACGTTGTTCTGCAAAAAACCTTCGAGATGTTGATGA
AGTCTCATCTCTACTTCGTACCTCTGTAATGTGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGT
TCAGGCATGCGTATCTATTTTTCTGATTCTGGCCATTTCAAAGTTGATAACATCAGAGTTTGTAATAATTCTGGG
CTGTGGTATCACTTCCTCTTCAGTATTGCATGGCATGGTTTTTAAGAAGGAAACAGAAGGTGATGTACATCTGTC
AAAGATGCAAAAATAGCAGTGTACTCTTGTCCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTTGATA
AAGACTGATGAAGAATTGATGAATTTAAGTAAGGGAGAAGAAAATCTCATGGATGCATAAGTCAAAGCTATTGCT
GATACTGGTGCAAAATGTTGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAACAAATATAAT
ATGATGTTAGTGAAGCTAAACTCAAAATGGGATGTCTGAAGACTCTGTAAAACAGTTGGTGCTACAGCTCTTCCT
AGATTGACACCTCCTGTCCTTGAAGAAATGGGACACTGAGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAG
GTGGTGGTTTTTAAGCATGAAAAGGAAGATGGCATCATTTCTACCATAGTACTTCAGGGCTCTACAGACAATCTG
ATGGATGACATAGAAAGGGCAGTAGATGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTA
CCCGGAGGTGGAGCAACAGAAATTGAATTAGCCAAACAGATCAGATCATATGGAGAGACATGTCCTGGACTTGAA
CAGTACGCTATTAAGAAGTTTGCTGAGGCGTTTGAAGCTATTCCCCGTGCACTGGCAGAAATACTCTGGAGAAAA
CTCTGGAGTTAAGGCCAATGAAGTAATCTCTAAACTTTATGCAGTACCTCAAGAAGGAAATAAAAATGTTGGATT
AGATACTGAGGCTGTAGTCCCTGCTGTAAACGGACATGTTGGAAGCTGGTGTTCTAGATACTTACCTGGGAAAACA
CTGGTCTATCAAACCTCGCTGCTAATGCTGCAGTCACTGTACTTAGAGTGGGTCAGGTAATCATGGCAAAACCAGA
TGGTGGGCCCCAAGCCTCCAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGATTGAAATTGGCTTAATTTTTA
CTGTAGGTGAAGGCTGTATTTGTAGTAGTATTCTAAGAATCGCGTGATGTTTTCTTATTCTCCTTACATTAAGAG
GTATTTTGTGTTTGATTCTTGGCTGGATGTTATAATAACATATTGTTACTGTC

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FIGURE 327

GGGCTTCGCCCAGATGCTCAAGGAGGGAGCGAAACACTTTTCAGAATTAGAAGAGGCTGTGTATAGAAACATACA
AGCTTGCAAGGAGCTTGCCCAAACCACTCGTACAGCATATGGACGAAATGGAATGAAAAAATGGTTATCAACTA
CTTGGAGAAGTTGTTTGTGACAAATGATGCAGCGACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAA
AATGACTGTAATGGCTTCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAACATTGTTCTGGTATTTGCTGG
AGCTCTCCTGGAATTAGCTGAAGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAAT
AGCTTGCAAGAAAGCTCATGAGATTCTTCCTAATTTGGTACGTTGTTCTGCAAAAAACCTTCGAGATGTTGATGA
AGTCTCATCTCTACTTCGTACCTCTGTAATGTGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGT
TCAGGCATGCGTATCTATTTTTCTGATTCTGGCCATTTCAAAGTTGATAACATCAGAGTTTGTAATTTCTGGG
AACAGTGTTGATAAAGACTGATGAAGAATTGATGAATTTAAGTAAGGGAGAAGAAAATCTCATGGATGCATAAGT
CAAAGCTATTGCTGATACTGGTGAAATGTTGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGC
AAACAAATATAATATGATGTTAGTGAAGCTAAACTCAAAATGGGATGTCTGAAGACTCTGTAAACAGTTGGTGC
TACAGCTCTTCCTAGATTGACACCTCCTGTCCTTG

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FIGURE 328

GTGGGTAGGAGCTTGCTTATAGAAAAGTGAATCGAGTAGTCCTTGCTGGTGGAGCCGCTGCCGCCAGGGAACTC
AGGGCCGGCTCCTGTTCCCTTCAAGAGTGCTGGAGGCCAACTTGAAATACAAGTTTAATGTTCCCTCGTCGGGCAA
AAGATAAGGATCCGATCTCCCCGGCCCGGTGTGCAGCAGGAGCGACCAACCCGACCCGGGTAAAACTCCCAG
GGACTCTTCGCTGCTGCCACCTCTTGTTCTCTCCCCCGTTCCCACTCGGGGTCTCCCTCAGGGCCGGGAGGCACA
GCGGTCCCTGCTTGCTGAGGGGCTGGATGTACGCATCCGCAGGTTCCCGCGGACTTGGGGGCGCCCGCTGAGCCC
CGGCGCCCGCAGAAGACTTGTTGTTGCCCTCCTGCAGCCTCAACCCGAGGGGCAGCGAGGGCCTACCACCAATGATC
ACTGGTGTGTTTACGATGCGCTTGTTGGACCCAGTGGGCGTCTTGACCTCGCTGGCGTACTGCCTGCACCAGCGG
CGGTGGCCCTGGCCGAGCTGCAGGAGGCCGATGGCCAGTGTCCGGTCGACCGCAGCCTGCTGAAGTTGAAAATG
GTGCAGGTCGTGTTTCGACACGGGGCTCGGAGTCCTCTCAAGCCGCTCCCGCTGGAGGAGCAGGTAGAGTGGAAC
CCCCAGCTATTAGAGGTCCCACCCCAAACCTCAGTTTGATTACACAGTCACCAATCTAGCTGGTGGTCCGAAACCA
TATTCTCCTTACGACTCTCAATACCATGAGACCACCTGAAGGGGGGCATGTTTGCTGGGCAGCTGACCAAGGTG
GGCATGCAGCAAATGTTTGCTTGGGAGAGAGACTGAGGAAGAAGTATGTGGAAGACATTCCCTTTCTTTCACCA
ACCTTCAACCCACAGGAGGTCTTTATTTCGTTCCACTAACATTTTTTCGGAATCTGGAGTCCACCCGTTGTTTGCTG
GCTGGGCTTTTCCAGTGTGAGAAAGAGGACCCATCATCATCCACACTGATGAAGCAGATTGAGAAGTCTTGAT
CCCAACTACCAAAGCTGCTGGAGCCTGAGGCAGAGAACCAGAGGCCGAGGCAGACTGCCTCTTTACAGCCAGGA
ATCTCAGAGGATTTGAAAAAGGTGAAGGACAGGATGGGCATTGACAGTAGTGATAAAGTGGACTTCTTCATCCTC
CTGGACAACGTGGCTGCCGAGCAGGCACACAACCTCCCAAGCTGCCCCATGCTGAAGAGATTGACACGGATGATC
GAACAGAGAGCTGTGGACACATCCTTGACATACTGCCCAAGGAAGACAGGGAAAGTCTTCAGATGGCAGTAGGC
CCATTCTCCACATCCTAGAGAGCAACCTGCTGAAAGCCATGGACTCTGCCACTGCCCCGACAAGATCAGAAAG
CTGTATCTCTATGCGGCTCATGATGTGACCTTCATACCGCTCTTAATGACCCTGGGGATTTTGGACCACAAATGG
CCACCGTTTGCTGTTGACCTGACCATGGAACCTTACCAGCACCTGGAATCTAAGGAGTGGTTTGTGCAGCTCTAT
TACCACGGGAAGGAGCAGGTGCCGAGAGGTTGCCCTGATGGGCTCTGCCCGCTGGACATGTTCTTGAATGCCATG
TCAGTTTATACCTTAAGCCCAGAAAAATACCATGCACTCTGCTCTCAAACTCAGGTGATGGAAGTTGGAAATGAA
GAGTAACTGATTTATAAAAGCAGGATGTGTTGATTTTAAATAAAGTGCCTTTATACAATGCCAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 329

MITGVFSMRLWTPVGVLTSLAYCLHQRRVALAELQEADGQCPVDRSLLKLMVQVVFRHGARSPLKPLPLEEQVE
WNPQLLEVPPQTQFDYTVTNLAGGPKPYSPYDSQYHETTLKGGMFAGQLTKVGMQQMFALGERLRKNYVEDIPFL
SPTFNPQEVFIRSTNIFRNLESTRCLLAGLFQCQKEGP IIIHTDEADSEVLYPNYQSCWSLRQTRGRRTASLQ
PGISED LKKVKDRMGIDSSDKVDF FILLDNVAAEQAHNLPSCPMLKRFARMIEQRAVDTSLYILPKEDRESLQMA
VGPFLHILES NLLKAMDSATAPDKIRKLYLYAAHDVTFIPLLMTLGIFDHKWPPFAVDLTMELYQHLESKEWFVQ
LYYHGKEQVPRGCPDGLCPLDMFLNAMS VYTLSPEKYHALCSQTQVMEVGNEE

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FIGURE 330

CTTAAAGTGAAATAATTTTTTGCAAAGGGGTTTCCTCGATTGAGCTTTTTTTTCTTCCACCGTCATTTCTAA
CTCTTAAACCAACTCAGTTCCATCATGGTGATGTTCAAGAAGATCAAGTCTTTTGAGGTGGTCTTTAACGACCC
TGAAAAGGTGTACGGCAGTGGCGAGAAGGTGGCTGGCCGGGTGATAGTGGAGGTGTGTGAAGTTACTCGTGTCAA
AGCCGTTAGGATCCTGGCTTGCGGAGTGGCTAAAGTGCATCCTCAACAACAATGTGCAGTGAGCATGTGGAAGAA
AAGAAGCAGCTTTACCTACTTGTTTCTTTTTGTCTCTCTTCTGGACACTCACTTTTCAGAGACTCAACAGTCT
CTGCAATGGAGTGTGGGTCCACCTTAGCCTCTGACTTCCTAATGTAGGAGGTGGTCAGCAGGCAATCTCCTGGGC
CTTAAAGGATGCGGACTCATCCTCAGCCAGCGCCCATGTTGTGATACAGGGGTGTTGTTGGATGGGTTAAAAA
TAACTAGAAAAACTCAGGCCCATCCATTTTCTCAGATCTCCTTGAAAATTGAGGCCTTTTCGATAGTTTCGGGTC
AGGTAAAAATGGCCTCCTGGCGTAAGCTTTTCAAGGTTTTTGGAGGCTTTTGTAAATTGTGATAGGAACTTTG
GACCTTGAACTTATGTATCATGTGGAGAAGAGCCAATTTAACAACTAGGAAGATGAAAAGGGAAATTGTGGCCA
AAACTTTGGGAAAA

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FIGURE 331

TGACTTGCTCACTATCATGAACTCAAAAGAACTAGCAATTTTTTAGACTTCTTTTGGGATCCTTGTACCGCATC
CTATACTGCTTTTATGTTTCATGTGTGCATTTGTGTACATGTATACACATATTACTCCATAACGAAGCACAGTCTT
CTTTTATACCTTTCCTGGTTGGGGTAGTAGAGGAATTTTACAGCCTACAATCAGACACATCCAGAAGAAGAGTGG
AATATGTATGATACCTTAAAAATCAGCACATTTAACAAAGTATAACTTACTCATGGTTACAACAAAGTTAATGTT
TTTTCCCTTTATTTTTTCAAAAGGCTCATTTTTCTCCATTTCTCTACTATCAAAGTCAAGAACTGCCCAATGGCTC
TGTCAAGGAGGCTCCAGCTCCTACTCCCCTTCTCTGGAAGTCTCAAGTCCACCAGATACTACAGAGGAAGAAGA
TCATAAGCCTAAACTCTGCAGGCTGGCTAAAGGTGAAAATGGCTATGGCTTTCACTTAAATGCGATTGCGGGTCT
GCCAGGCTCATTTCATCAAAGAGGTACAGAAGGGCGGTCTGCTGACTTGGCTGGGCTAGAGGATGAGGATGTCAT
CATTGAAGTGAATGGGGTGAATGTGCTAGATGAACCTATGAGAAGGTGGTGGATAGAATCCAGAGCAGTGGGAA
GAATGTCACACTTCTAGTCTGTGGAAAGAAGGCCTATGATTATTTCCAAGCTAAGAAAATCCCTATTGTTTCCTC
CCTGGCTGATCCACTTGACACCCCTCCAGATTCTAAAGAAGGAATAGTGGTGGAGTCAAAGCATGACTCGCACAT
GGCAAAGAACGGGGCCACAGTACAGCCTCACATTCTTCTTCCAATTCTGAAGATACAGAGATGTGATGAAAACA
AGCGGCTATTGCAGACGGCTAATTTATGCTTAACCTTAGGAAGAGATAAGGTTCTTGAGCACCAAAGATGATTCA
TAACTCTGTATAGGTGACAGCTGCTTATAAAAGCATCTTAGCAGATAAGCCTATTAAAATTGTGCTTTTGTAAACA
ATGTTGTGGTTGCTAGATAAATAACCATTAACAAA

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FIGURE 332

GTCCCAACTCTTGGACTCCATTTGCTATTCTCTTTCTCCCCACACCTATCTGGTGGTGGTAGTGGGCGTTT
ATATTTGCGTTCCTTTTTCATTCATTTCTAAATCTCTTAAAAATTTTGGGTGGGGGTATTGGGGAAGGCAGGAAA
GGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACATGGGAGATGAAGAAGAAGATTAACTGGAGTTAAGG
AACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATAATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTG
AATGATACTTTCAAAGAACTAGAATTTCTGAGTATGGCTAATGTGGAACCTAAGTTCGCTGGCCCGGCTTCCCAGC
TTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAATTTCTGGAGGCTTGGAAGTCCTGGCAGAGAAATGT
CCAAATCTTACCTACCTCAATCTGAGTGGAACAAAATAAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTT
AAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCACAAACCTGGAAGATTATAGAGAAAGTATTTTGA
CTACTGCAGCAAATCACATACTTAGATGGATTTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGAT
GATGAGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAG
GAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTAGAGTTGGGAGAGGGA
GAAGAGGAAGTGGGCCTCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATGACTATGTTGAA
GAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACGAGATGCTGAAGACGAT
GGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATTCTCTAATGTTTCTGGGTGTGCAATAGAGTGATCAC
ATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAGATAATGTGTAACTTTTTATAGGAAAAGTGTGGTTT
TACTATTTTTGCCTTATCATTCCAAATAAGAACTAGTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTTCA
TTGACTCCCATTTGTGGAATTCCTAGCAATTTATTTAGACTTAATTTTTTAAATTCAAGCTTACTGTATTAGTCA
TTTTTAGCCATAATTAAAACATGATCACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 333

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLP
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKSLEDFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEEDEDEDGDEDEDEEEENEAGPPEGYEEDDEDEDEDEDEDEDEDEDEAGSELGE
IQDEEDDDDYVEEGEEDDEEEEGGLRGEKRRKRAEDDGEEDD

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FIGURE 334

GTGGGGTCGCGTTGCCACCCACGCGGACTCCCCAGCTGGCGCGCCCTCCCATTTGCCTGTCCTGGTCAGGCCC
CCACCCCCCTTCCCACCTGACCAGCCATGGGGGCTGCGGTGTTTTTCGGCTGCACTTTTCGTGCGGTTCCGGCCCGG
CCTTCGCGCTTTTCTTGATCACTGTGGCTGGGGACCCGCTTCGCGTTATCATCCTGGTCGCAGGGGCATTTTTCT
GGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCATCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGC
TCCAGTACGGCCTCCTGATTTTTGGTGCTGCTGTCTCTGTCTTCTACAGGAGGTGTTCCGCTTTGCCTACTACA
AGCTGCTTAAGAAGGCAGATGAGGGGTTAGCATCGCTGAGTGAGGACGGAAGATCACCCATCTCCATCCGCCAGA
TGGCCTATGTTTCTGGTCTCTCCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCAC
TTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCTATTACTTCCTGACTTCAGCCTTTCTGACAGCAGCCA
TTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCC
TGGTGGTTGGGAGTCACCTACTGACATCGGGACTGACATTCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCA
TCTATGCAGTCACTGTTTCCATGGGGCTCTGGGCCCTTCATCACAGCTGGAGGGTCCCTCCGAAGTATTCAGCGCA
GCTCTTGTTGAAGGACTGACTACCTGGACTGATCGCCTGACAGATCCACCTGCCTGTCCACTGCCCATGACTGA
GCCAGCCCCAGCCCGGGTCCATTGCCACATTCTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCCAGGG
TTTTGCTTTGTCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAGCCTGGGTTAGCCAGTCAGTGACT
GGTGGGTTTGAATCTGCACCTATCCCCACCACCTGGGGACCCCTTGTGTTGTGTCAGGACTCCCCCTGTGTCAGT
GCTCTGCTCTCACCTGCCCAAGACTCACCTCCCTTCCCCTCTGCAGGCCGACGGCAGGAGGACAGTCGGGTGAT
GGTGTATTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAACCTAGGGGGACCCCTGGGCCTGGGGTGCCCTC
CTGATGTCCTCGCCCTGTATTTCTCCATCTCCAGTTCTGGACAGTGCAGGTTGCCAAGAAAAGGGACCTAGTTTA
GCCATTGCCCTGGAGATGAAATTAATGGAGGCTCAAGGATAGATGAGCTCTGAGTTTCTCAGTACTCCCTCAAGA
CTGGACATCTTGGTCTTTTTCTCAGGCCTGAGGGGGAACCATTTTTGGTGTGATAAATACCCTAAACTGCCTTTT
TTTCTTTTTTGGAGTGGGGGGAGGGAGGAGGTATATTGGAACCTCTCTAACCTCCTTGGGCTATATTTTCTCTCC
TCGAGTTGCTCCTCATGGCTGGGCTCATTTCCGGTCCCTTTCTCCTTGGTCCCAGACCTTGGGGGAAAGGAAGGAA
GTGCATGTTTGGGAACCTGGCATTACTGGAACCTAATGGTTTTTAACCTCCTTAACCACCAGCATCCCTCCTCTCCCC
AAGGTGAAGTGGAGGGTGCTGTGGTGAGCTGGCCACTCCAGAGCTGCAGTGCCACTGGAGGAGTCAGACTACCAT
GACATCGTAGGGAAGGAGGGGAGATTTTTTGTAGTTTTTAATTGGGGTGTGGGAGGGGCGGGGAGGTTTTCTAT
AAACTGTATCATTTTCTGCTGAGGGTGGAGTGTCCTTTAATCAAGGTGATTGTGATTTTGACTAATAAA
AAAGAATTTGTAAAAAA

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FIGURE 335

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIIILVAGAFFWLVSLLLASVVWFILVHVTDRSDARLOYGLLIFG
AAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISIRQMAYVSGLSFGIISGVFSVINILADALGPGVVGIH
GDSPYYFLTSAFLTAAILLHTFWGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMG
LWAFITAGGSLRSIQRSSCVRTDYLD

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FIGURE 336

TTCCGGTGGGCTAGGTACTGAGCGCGCGAGGCTCTACAGAGTGAAGGTTTAAATCCAAGGTCATGGCAAAACATC
TGAAGTTCATCGCCAGGACTGTGATGGTACAGGAAGGGAACGTGGAAAGCGCATACAGGACCCTAAACAGAATCC
TCACTATGGATGGGCTCATTGAGGACATTAAGCATCGGCGGTATTATGAGAAGCCATGCCGCCGGCGACAGAGGG
AAAGCTATGAAAGGTGCCGGCGGATCTACAACATGGAAATGGCTCGCAAGATCAACTTCTTGATGCGAAAGAATC
GGGCAGATCCGTGGCAGGGCTGCTGAGGCCTGTGGGTGGGACACCCAGTGCGAAACCCTCATCCAGTTTTCTCTC
CATCTCTTTTCTTTGTACAATCCCATTTCTTCTATTACCATTTCTCTGCAATAAACTCAAATCACATGTCTGCAAAA

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FIGURE 337

MAKHLKFIARTVMVQEGNVESAYRTLNRILTMDGLIEDIKHRRYYEKPCRRRQRESYERCRIYNMEMARKINFL
MRKNRADPWQGC

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FIGURE 338A

ATGTCTCCACTTCTGAGAAGCATCTGTGACATCACTGAAATTTTCAATCAGTATGTCTCTCATGATTGTGATGGA
GCAGCATTAACTAAGAAAGACCTGAAGAACCTCCTTGAAGGGAATTTGGAGCTGTGCTTCGGAGACCACATGAC
CCTAAGACGGTAGATCTGATCCTGGAACCTTCTGGATCTTGACAGTAATGGGCGTGTGATTTCAACGAATTCCTC
CTATTTATTTTCAAAGTGGCTCAAGCTTGTACTATGCTCTCGGCCAGGCCACGGGACTGGATGAGGAGAAGCGA
GCCCCGTGTGACGGAAGGAGAGCCTGTTACAAGATCGCAGGCAAGAAGAAGACCAAAGGAGATTGAGCCCCGG
GACAGACAACCTGGAAGAAGAACCTGGGCAACGACGCAGGCAGAAGAGGCAGGAACAGGAGAGGGAGCTAGCTGAG
GGAGAGGAGCAAAGTGAGAAACAAGAGCGACTTGAACAGCGCGACAGGCAGCGCCGCGACGAGGAGCTGTGGCGG
CAAAGGCAAGAATGGCAAGAACGGGAAGAGCGCCGTGCAGAGGAAGAGCAGCTGCAGAGTTGCAAAGGTCACGAA
ACTGAGGAGTTTCCAGACGAAGAGCAACTGCGAAGGCGGGAGCTGCTGGAGCTGAGGAGGAAGGGCCGCGAGGAG
AAACAGCAGCAAAGGCGAGAGCGGCAAGACAGAGTGTTCCAGGAGGAAGAAGAGAAAGAGTGAGGAAAGCGCGAG
ACAGTGCTCCGGAAGGAAGAAGAGAAGCGCGAACGTTGGCTGAAGCTCGAGGAGGAGGAGAGGGCGCGAGCAGCAG
GAGAGGCGCGAGCAGCAACTAAGGCGGGAGCAAGAGGAGAGGCGCGAGCAGCGGCTGAAGCGCCAGGAGGAGGAA
GAGAGGCTCCAGCAGCGGTTGAGGAGCGAGCAACAATAAGACGCGAGCAGGAGGAGAGGCGCGAGCAGCTGCTG
AAGCGCGAGGAGGAGAAGAGGCTCGAGCAGGAGAGGCGAGAGCAGCGGCTGAAGCGCGAGCAGGAGGAGAGGCGC
GATCAGCTGCTGAAGCGCGAGGAGGAGAGGCGCCAGCAGCGGCTGAAGCGCGAGCAGGAAGAGAGGCTCGAGCAG
CGACTGAAGCGCGAGGAGGTGGAGAGACTCGAGCAGGAGGAGAGGCGCGAGCAGCGGCTGAAGCGCGAGGAGCCG
GAGGAAGAGAGGCGCCAGCAGCTGCTGAAGAGCGAGGAGCAGGAGGAGAGGCGCCAGCAGCAACTAAGGCGCGAG
CAGCAGGAAAGGCGCGAGCAGCGGCTGAAGCGCGAGGAGGAGGAAGAGAGGCTCGAGCAGCGGCTGAAGCGCGAG
CATGAGGAAGAGAGGCGCGAGCAGGAGCTAGCTGAGGAGGAGCAGGAACAGGCCCCGGGAGCGGATTAAGAGCCGC
ATCCCGAAGTGGCAGTGCGCAGCTAGAAAGCGAGGCCGACGCACGGCAAAGCAAAGTCTACTCGAGGCCCGCAAG
CAGGAAGGGCAGAGGCGCGCCCAAGAGCAGGAGGAAAAGAGGCGCGCGGGAGAGTGAGCTGCAATGGCAGGAG
GAGGAACGGGCTCACCGGCAGCAGCAGGAAGAGGAGCAGCGCCGGGACTTCACATGGCAGTGGCAGGCGGAGGAA
AAGAGCGAGAGGGGGCCGTCAGAGGCTGTGCGCCAGGCCCCATTGCGGGAGCAGCGGGAGAGGCAGCTGAGGGCC
GAGGAGCGCCAGCAGCGGGAACAACGGTTTCTCCGAGGAGGAGGAGGAAGGAGCAGCGGCGCCGCCAGCGACGC
GAGAGGGAGAAAAGAGCTGCAGTTCTGGAGGAAGAGGAGCAGCTCCAGCGGCGGGAGCGTGCCCAACAGCTCCAG
GAGGAGGAGGACGGCTCCAGGAGGATCAGGAGAGGAGGCGAAGCCAGGAGCAGCGCCGCGACCAAAAATGGAGG
TGGCAACTAGAAGAAGAAAGGAAGAGACGCCCCACACGCTGTACGCCAAGCCAGCCCTACAAGAGCAGCTGAGG
AAGGAACAGCAGCTGCTGCAGGAGGAGGAGGAGGAGCTACAGAGAGAGGAGCGCGAGAAGAGAAGGCGCCAAGAA
CAGGAGAGACAATACCGCGAGGAAGAGCAGCTGCAGCAGGAGGAAGAGCAGCTGCTGAGAGAGGAACGGGAGAAA
AGAAGACGCCAGGAGCGGGAAGGCAATATCGGAAGGATAAGAAGCTGCAGCAGAAGGAAGAGCAGCTGCTGGGA
GAGGAACCGGAGAAGAGAAGGCGCCAGGAGCGGGAGAAAAAATACCGCGAGGAAGAGGAGTTGCAGCAGGAGGAA
GAGCAGCTGCTGAGAGAGGAACGGGAGAAGAGAAGGCGCCAGGAGTGAGGAGAGGCAGTACCGCAAAAAGACGAG
CTGCAGCAGGAAGAAGAGCAGCTGCTGAGAGAGGAACGGGAGAAAAGAAGACTCCAGGAGCGGGAGAGGCAATAT
CGGGAGGAAGAGGAGCTGCAGCAGGAGGAAGAGCAGCTGCTGGGAGAGGAACGGGAGACGAGAAGGCGCCAGGAG
CTGGAGAGGCAATATCGGAAGGAAGAGGAGCTGCAGCAGGAGGAAGAGCAGCTGCTGAGAGAGGAACCGGAGAAG
AGAAGGCGCCAGGAGCGGGAGAGGCAATGCAGAGAGAATGAACAGTTCGGGAGTTGGAAGATTCCAGCTGCGC
GACAGACAATCCAGCAAGATCTGCAGCACCTGCTGGGTGAACAGCAAGAGCGAGATCGTGAGCAAGAGAGGAGG
CGCTGGCAGCAGCGGACAGGCATTTCCAGAGGAAGAACAGCTGGAGCGAGAAGAGCAAAAGGAAGCCAAAAGG
CGCGACAGGAAGTCCCAAGAGGAAAAGCAGTTGCTGAGAGAGGAAAAGAGAAGAGAAGAGACGCCGTCAAGAGACA
GACAGAAAATTCGCGAGGAGGAACAGCTGCTCCAGGAAAGGGAGGAACAGCCGCTGCGCCGCCAAGAGCGTGAC
AGAAAATTCGCGAAGAGGAACCTGCGCCATCAGGAACAAGGGAGAAAATTCCTCGAGGAGGAACAGCGGCTGCGC
CGCCAGGAACGGGAGAGAAAATTCCTTAAGGAGGAACAGCAGCTGCGCTGCCAGGAGCGCGAGCAACAGCTGCGT
CAGGACCGCGACAGAAAATTCGCGAGGAGGAACAGCAGCTGAGCCGCCAAGAGCGTGACAGAAAATTCGCTGAA
GAGGAACAGCAGGTGCGCCGCCAGGAACGAGAGAGAAAATTCCTGGAGGAGGAACAGCAGCTGCGCCAGGAGCGT
CACAGAAAATTCGCGAAGAGGAACAGCTGCTCCAGGAAAGGGAAGAAGAGCAGCTGCACCGCCAAGAGCGTGAC
AGAAAATTCCTGGAGGAGGAACAACAGCTGCGCCGCCAAGAGCGTGACAGAAAATTCGCGAAGAGGAACTGCGC
AGTCAGGAACCAGAGAGAAAATTCCTCGAGGAGGAACAGCAGCTGCACCGCCAGCAACGGCAGAGAAAATTCCTC
CAGGAGGAACAGCAGCTGCGCCGCCAGGAGCGCGGGCAACAGCGGCGTCAGGACCGTGACAGAAAATTCGCGAG

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FIGURE 338B

GAGGAACAGCTGCGCCAGGAGAGGGAGGAACAGCAGCTGAGCCGCCAAGAGCGTGACAGAAAATTCCGTTTAGAG
GAACAGAAAGTGCGCCGCCAGGAACAAGAGAGAAAATTCATGGAGGACGAACAGCAGCTGCGCCGCCAGGAGGGC
CAACAACAGCTGCGCCAGGAGCGCGACAGAAAATTCGCGAAGACGAACAGCTGCTCCAGGAAAGGGAAGAACAG
CAGCTGCACCGCCAAGAGCGTGACAGAAAATTCCTCGAGGAGGAACCGCAGCTGCGCCGCCAGGAGCGCGAACAA
CAGCTGCGTCACGACCGCGACAGAAAATTCGCTGAAGAGGAACAGCTGCTCCAGGAAGGGGAGGAACAGCAGCTG
CGCCGCCAAGAGCGTGACAGAAAATTCGCGAAGAGGAACAGCAGCTCCGCGCTCAGGAACGAGAGAGAAAATTC
CTCCAGGAGGAACAGCAGCTGCGCCGCCAGGAACCTGGAGAGAAAATTCGCTGAGGAGGAACAGCTGCGCCAAGAA
ACGGAGCAAGAGCAGCTGCGCCGCCAAGAACGCTACAGAAAATTCCTAGAGGAAGAGCAGCTCCGTCCGGAAAGG
GAAGAACAGCAGCTGCGCCGCCAGGAGCGCGACAGAAAATTCGCGGAGGAGGAACAGCTCCGCCAGGAGAGGGAG
GAACAGCAGCTGCGCAGCCAAGAGTCTGACAGAAAATTCGCGGAGGAGGAACAGCTACGCCAGGAGAGGGAAGAA
CAGCAGCTGCGCCCCCAACAGCGTGACGGAAGTATCGCTGGGAAGAAGAGCAGCTCCAATTGAGGAACAAGAG
CAGAGGCTGCGGCAGGAGCGAGACCGGCAGTACCGGGCGGAGGAGCAGTTTGCCACGCAGGAGAAGAGTCGTCTG
GAGGAACAAGAACTATGGCAAGAAGAGGAGCAGAAACGTCGCCAGGAACGGGAAAGGAAATTACGGGAAGAACAC
ATCCGCCGCCAGCAGAAGGAGGAACAGAGGCACCGCCAAGTCGGGGAGATAAAATCCCAAGAAGGGAAGGGCCAT
GGGCGGCTTCTGGAGCCCGGCACTCATCAGTTTGCCAGTGTCAGTGCTCCAGCCCTCTCTATGAGTACATC
CAAGAGCAGAGATCTCAATACCGCCCTTAA

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FIGURE 339

MSPLLRSICDITEIFNQYVSHDCDGAALTKKDLKNLLEREFGAVLRRPHDPKTVDLILELLDLDSDNGRVDFNEFL
LFIFKVAQACYALGQATGLDEEKRARCDGKESLLQDRRQEEDQRRFEPDRDQLEEEPGQRRRQKRQEERELAE
GEEQSEKQERLEQRDRQRDEELWRQRQEWQEREERRAEEELQSCCKGHETEEFPDEEQLRRELLELRKRGREE
KQQQRRERQDRVFQEEEEKEWRKRET VLRKEEEKRERWLKLEEEERREQQERREQQLRREQEERREQRLKRQEEE
ERLQQLRSEQQLRREQEERREQLLKREEEKRLQEERREQRLKREQEERRDQLLKREEERRQQLKREQEERLEQ
RLKREEVERLEQEERREQRLKREEPEEERRQQLLKSEEQEERREQQLRREQQERREQRLKREEEEEEERLEQRLKRE
HEERREQELAEQQEQARERIKSRIPKWQWQLESEADARQSKVYSRPRKQEGQRRRQEQEEKRRRRESELQWQE
EERAHRRQQEEEEQRRDFTWQWQAEKSERGRQRLSARPPLEQRERQLRAEERQQREQRFLEPEEEEEKEQRRRQRR
EREKELQFLEEEELQRRRERAQQLEEEEDGLQEDQERRRSQEQRDDQKWRWQLEEEERKRRRHTLYAKPALQEQLR
KEQQLLQEEEEELQREEREKRRRQEQERQYREEEQQLQEEEEQLLREEREKRRRQERERQYRKDKKLQKKEEQLLG
EEPEKRRRQEREKKYREEEELQQEEEEQLLREEREKRRRQEWERQYRKDELQQEEEEQLLREEREKRRRLQERERQY
REEEELQQEEEEQLLGEERETRRRQELERQYRKEEELQQEEEEQLLREEPEKRRRQERERQCRENEQFRQLEDSQLR
DRQSQDDLQHLLEGEQQRDRDREQERRRWQQRDRHFPEEEQLEREEQKEAKRRDRKSQEEKQLLREEREKRRRQET
DRKFREEEQQLQEREEQPLRRQERDRKFREEELRHQEQGRKFLEEEQRLRRQERERKFLKEEQQLRCQEREQQLR
QDRDRKFREEEQQLSRQERDRKFREEEQVRRQERERKFLKEEQQLRQERHRKFREEEQQLQEREEQQLHRQERD
RKFLKEEQQLRRQERDRKFREQELRSQEPERKFLEEEQQLHRQQRQRKFLQEEQQLRRQERGOQRRQDRDRKFRE
EEQLRQEREEQQLSRQERDRKFRLQEQKVRREQEERKFMEDEQQLRRQEGQQQLRQERDRKFREDEQQLQEREEQ
QLHRQERDRKFLEEEQQLRRQEREEQQLRHDRDRKFREEEQQLQEGEEQQLRRQERDRKFREEEQQLRRQERERKF
LQEEQQLRRQELERKFREEEQQLRQETEQEQLRRQERYRKILEEQQLRPEREEQQLRRQERDRKFREEEQQLRQERE
EQQLRSQESDRKFREEEQQLRQEREEQQLRPQQRDGKYRWEEELQLEEQEQLRQERDRQYRAEEQFATQEKSR
EEQELWQEEEEQKRRQERERKLRREEHIRRQQKEEQRRHQVGEIKSQEGKGHGRLLPETHQFASVPVRSSPLYEYI
QEQRSQYRP

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FIGURE 340

GGGCAAGGCTGGGCCGGGAAGGGCGTGGGTTGAGGAGAGGCTCCAGACCCGCACGCCGCGCGCACAGAGCTCTCA
GCGCCGCTCCCAGCCACAGCCTCCCGCGCCTCGCTCAGCTCCAACATGGCAAAAATCTCCAGCCCTACAGAGACT
GAGCGGTGCATCGAGTCCCTGATTGCTGTCTTCCAGAAGTATGCTGGAAAGGATGGTTATAACTACACTCTCTCC
AAGACAGAGTTCCTAAGCTTCATGAATACAGAACTAGCTGCCTTCACAAAGAACCAGAAGGACCCTGGTGTCTT
GACCGCATGATGAAGAACTGGACACCAACAGTGATGGTCAGCTAGATTTCTCAGAATTTCTTAATCTGATTGGT
GGCCTAGCTATGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCTTCCCAGAAGCGGACCTTGAGGACCCCTTGGC
CCTGGCCTTCAAACCCACCCCCTTTCCTTCCAGCCTTTCTGTTCATCATCTCCACAGCCCACCCATCCCCTGAGCA
CACTAACCACCTCATGCAGGCCCCACCTGCCAATAGTAATAAAGCAATGTCACCTTTTTTAAAACATGAAA

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FIGURE 341

MAKISSPTETERCIESLIAVFQKYAGKDGYNITLSKTEFLSFMNTELAFTKNQKDPGVLDMMKKLDTNSDGQL
DFSEFLNLIGGLAMACHDSFLKAVPSQKRT

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FIGURE 342

CCGGTGGGGCGGGAAGCCCGGCTTCTGGGGAGGTGCCGCCCTCCACTGGCGCAGGCCGCCGAGACCCCCAGACG
GACCTCCTAGGGCTAATCTGATAGTGCCCTCTGAGGTCGATAGGACTCCACGTGCCACTCCCTGCAGGGTCATCCA
GCAAGTAATTCCTAGACCCGTAGGTGGCCGCAGAGCCGGTTACCTCTGGTTCTGCGCCAGCGTGCCCCACCCGCA
GGACGGCCGGGTTCCTTTGATTTGTACACTTTCTAAAACCAAACCCGAGAGGAAGGGCAGGCTCAGGGTGGGGATG
CCCTGAAATATTCGAGAGCAGGACCGTTTCTACTGAAGAGAAGTTTACAAGAACGCTCTGTCTGGGGCGGGCGAG
GCCTCTGCGAGGCGGGTCCGGGAGCGAGGGCAGGGCGTGGGCCGCGCGCCCGGGGTCGGGGGAGTCGGGGGCAGG
AAGAGGGGGAGGAGACAGGGCTGGGGGAGCGCCCTGCCGAGCGCCCGCCAGGCTCCTCCCCTCCCCTCGCCGCGCT
CCCTCTACCCACCCGCCGCACGTACTAAGGAAGGCGCACAGCCCGCCGCGCTCGCCTCTCCGCCCCGCGTCCAGC
TCGCCCAGCTCGCCCAGCGTCCGCCGCGCCTCGGCCAAGGCTTCAACGGACCACACCAAATGCGCATCTCAAATG
GAACACGCCATGGAAACCATGATGTTTACATTTACAAATTCGCTGGGGATAAAGGCTACTTAACAAAGGAGGAC
CTGAGAGTACTCATGGAAAAGGAGTTCCCTGGATTTTTGGAAAATCAAAAAGACCCTCTGGCTGTGGACAAAATA
ATGAAGGACCTGGACCAGTGTAGAGATGGCAAAGTGGGCTTCCAGAGCTTCTTTTCCCTAATTGCGGGCCTCACC
ATTGCATGCAATGACTATTTTGTAGTACACATGAAGCAGAAGGGAAAGAAGTAGGCAGAAATGAGCAGTTCGCTC
CTCCCTGATAAGAGTTGTCCCAAAGGTCGCTTAAGGAATCTGCCCCACAGCTTCCCCATAGAAGGATTTTCATG
AGCAGATCAGGACACTTAGCAAATGTAAAAATAAAATCTAACTCTCATTGACAAGCAGAGAAAGAAAAGTTAAA
TACCAGATAAGCTTTTGATTTTTGTATTGTTTGCATCCCCTTGCCCTCAATAAATAAAGTTCTTTTTTAGTTCC

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FIGURE 343

MPSQMEHAMETMMFTFHKFAGDKGYLTKE³⁷³DLRVLMEKEFP⁶⁸⁸¹GFLENQKDPLAVDKIMKDLDQCRDGKVG³⁷³QSF⁶⁸⁸¹SL
IAGLT³⁷³IACNDYFVVHMKQKGKK

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FIGURE 344

CGGCTGAAGCGCCGCGCGGGGCTCACTGTGGTGGTGTGAGTGGGAGGCGGCGGCGCTGGTGGCTGCAGCTGGG
GTGAGGCGCGAGGCGGCGCACTCGACGGCTGACTGGAGCAGCGGTAAAGGCGAGGATGGAGACCGAAGGATATAA
GTCAAAGAGTACAGCAGAAAAATGCTCTACTGAACGGACTTCTTGGACAAGCCTGTCCACCATTTCAGAAAAATAGCCC
TGGGCCTTGGGATCCCAGCCAGTGCAACAGTTGCCTATATCCTATACCGCAGGTATAGGGAAAGCAGAGAAGAGC
GGCTGACATTTGTTGGGGAAGATGACATTGAGATAGAGATGCGGGTTCCCCAGGAGGCTGTGAAACTCATCATTG
GCCGGAAGGAGCCAATATTAAACAGCTGCGGAAACAGACAGGTGCTCGGATTGATGTGGACACAGAGGATGTAG
GCGATGAGCGAGTGCTGCTTATCAGTGGTTTTCTGTTTTCAGGTGTGCAAGGCCAAAGCAGCAATCCATCAGATCC
TGACAGAGAATACCCCAGTGTCTGAGCAGCTTTCAGTTCCCCAGAGATCTGTGGGCAGAATCATAGGGGAGAGGCG
GCGAGACAATTCGTTCTATCTGTAAGGCATCTGGAGCCAAAATTACCTGTGACAAAGAATCAGAAGGGACATTAC
TACTATCAAGACTTATAAAAAATCTCAGGAACACAGAAGGAAGTGGCAGCAGCCAAGCATTGTGATACTGGAGAAAG
TTTCAGAAGATGAAGAACTTCGGAAGAGAATTGCTCATTCTGCAGAAACCAGGGTCCCACGCAAACAGCCAATCA
GTGTGAGAAGAGAAGACATGACAGAGCCAGGTGGAGCTGGAGAGCCAGCATTATGGAAAAACACCAGTTCTAGCA
TGGAGCCGACTGCACCCCTGGTGACTCCTCCACCCAAAGGAGGAGGCGACATGGCTGTGGTAGTGTCAAAGGAAG
GTTCTTGGGAGAAACCTAGTGATGACAGCTTTCAGAAGTCTGAAGCCCAGGCCATCCCAGAGATGCCCATGTTTG
AAATCCCCAGTCTGACTTCAGTTTTTCATGCTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAGCACCTTA
ACCACTTCTGGATCCAGATCGTTGGCTCCCGCAGCCTGCAATTGGATAAGCTTGTCAATGAGATGACCCAGCACT
ATGAGAATAGTGTGCCTGAAGACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTTACCTACAAATGGTT
CCTGGTATCGAGCCCGGCTCCTCGGCACCTTGGAGAATGGGAACCTGGACCTCTATTTTGTGACTTTGGAGATA
ATGGAGATTGCCCACTGAAGGACCTCAGGGCTCTCAGGAGTGACTTCCTAAGCCTTCCATTTCAAGCAATAGAAT
GTAGTCTGGCACGGATTGCTCCCTCAGGTGACCAGTGGGAAGAGGAAGCTTTGGATGAGTTTGATAGACTCACTC
ATTGTGCTGACTGGAAGCCTCTGGTAGCCAAGATCTCTAGCTATGTCCAGACTGGGATCTCAACTTGGCCAAAGA
TCTACTTATATGATACTAGCAATGGGAAGAACTTGATATTGGGCTAGAATTAGTACACAAAGGATACGCAATTG
AGCTTCCTGAAGACATAGAAGAAAACAGAGCTGTCCCAGACATGTTGAAGGACATGGCCACAGAAACAGATGCCT
CTCTCAGCACGTTGCTCACTGAGACCAAAAAGAGCTCTGGAGAGATAACACATACCCTGTCCTGCCTCAGCTTAT
CAGAAGCTGCTTCCATGTCTGGTGATGATAACCTTGAAGATGACTACTTACTCGGAAGTCTGGGCTTCAGTTTGC
TCAGCCATCTGCTTTGCTGTATGTTGCCTGCAATGAACTCGCTGAAGCATGCTCAGCCCTGGAACCTGGTGCTACC
AGAGTTCGCTAGGGAACCTTTACTCTTTAGAGGTCCCCTGATATAAAATCATTTCATAAGACTTCTACCTGGAAA
ATGAGTAATGTCTCATTCTTACCTGCAGTTTGTACTATGTATAAAAGTCTTTTCTTTAATATGCCTTTAAGTC
TTACCTGTTTACAGCCATTCTGATGGGTTCTTTGTCATTCTGTTAGTATAACCCAGTACTTTTCTGCTGCCTG
GAATGCCCTCTTCTATGTTACCTATTCTGTCCGTTGAGATGCCCAACTTGGGCCAAAGCCAAGAGATCTATGTG
CCTTCTCTGGTTTTCTCCACATCTATAGCACCTCAACTGAAATATATGGATAAAAACAGCCTAACAAAAAAAAA
AAAAAA

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FIGURE 345

MSTERTSWTSLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVPQEAVKLIIGRQGANI
KQLRKQGTGARIDVDTEVDGDERVLLISGFPVQVCKAKAAIHQILTENTPVSEQLSVPQRSVGRIIGRGGETIRSI
CKASGAKITCDKESEGTLTLLSRLIKISGTQKEVAAAKHLILEKVSEDEELRKRIAHSAETRVPRKQPISVRREDM
TEPGGAGEPALWKNTSSSMEPTAPLVTPPPKGGGDMAVVVSKEGSWEKPSDDSFQKSEAQAIPEMPMFEIPSPDF
SFHADEYLEVYVSASEHPNHFWIQIVGSRSLQLDKLVNEMTQHYENSVPEDLTVHVGDIVAAPLPTNGSWYRARV
LGTLENGNLDLYFVDFGDNGDCPLKDLRALRSDFLSLPFQAIECSLARIAPSGDQWEEELDEFDRLTHCADWKP
LVAKISSYVQTGISTWPKIYLYDTSNGKKLDIGLELVHKGYAIELPEDIEENRAVPDMLKDMATETDASLSTLLT
ETKKSSGEITHTLSCLSLSEAASMSGDDNLEDDYLLGSLGFSLLSHLLCCMLPAMNSLKHAQPWNWCYQSSVGNL
YSLEVP

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FIGURE 346

TTTTTCTGCTACCGTGACTAAGATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGGTCCGGCCC
CAGGACAGTTTTACCGCATTCCGTCCACTCCCGATTCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCTCTGGCGACTACGCTGATTTCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTCATTTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCTTCGCTGGCCACTGGTTATGGTGCACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCCGTTCTTACAACCGGTTTCAAACCGCCACTGTCACCGAAAAAGGTGTTG
AAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGTGGCTTTGAATGAAATACAG
ATGCATTATCCAGAACTGAAGTTGCCCTACTTTTAACTTTGAACTTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAAATG

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FIGURE 347

MEAFLSRSGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIIGGYADGESFLGYVDM LGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGPLSTETNWDIAHMISGFE

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FIGURE 348

AATTGGAGGAGTTGTTGTTAGGCCGTCCCGGAGACCCGGTCGGGAGGGAGGAAGGTGGCAAGATGGTGTGGAAA
GCACTATGGTGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGC
AGGATGCTGTCAACATAGTTTGTTCATTCAAAGACCCGCAGCAACCCTGAGAACAACGTGGGCTTATCACACTGG
CTAATGACTGTGAAGTGCTGACCACACTCACCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAAC
CCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATC
ACAAGATGCGCATCATTGCCCTTGTGGGAAGCCAGTGGAGGACAATGAGAAGGATCTGGTGAAACTGGCTAAAC
GCCTCAAGAAGGAGAAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAG
CCTTTGTAAACACGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGG
CTGATGCTCTCATCAGTTCTCCGATTTTGGCTGGTGAAGGTGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTG
AATTTGGAGTAGATCCCAGTGCTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGC
GGCAGGAGGAGGAGGCCCGGCGGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAG
ACTCAGACGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCCTGACCTAAGCA
GTATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCAGGCGGAAT
CAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGC
AGGACCCCGAGTTCCCTCAGAGTGTCTTAGAGAACCTCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATG
CTATGGGCTCCCTGGCCTCCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACT
GGAGGGAAAGGGTAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATC
TGTAACCATACAGCCTAAATAAAGCTTGGCAACTTTT

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FIGURE 349

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVLITLANDCEVLTTLTPTDGRILSKL
HTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDIINFGEDEVNT
EKLTAfvNTLNKGdGTGSHLVTVPPGpSLADALISSPILAGEGGAMLGLGASDFEFGVDPsADPELALALRVsME
EQRQRQEEEEARRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRtGLPDlSSMTeeEQIAYAMQMSLQGAEF
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNAMGSLASQATKDGKKDKKEED
KK

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FIGURE 350

CTGGTGAGGGGCTGCAGGTGGCGGCGCAGTCTCGGTAGGCGGTATCAGTTTGGCTGGGGGCCGGGCACCCCGGAA
GACCGCTGGGAACCGGCTTTCTGGGCTTTTGGAGGCAGAGGAGGAAGATGAGTTCTACCAGACGACTTATGGGGG
TTTCACAGAGGAATCCGGAGATGATGAGTATCAAGGGGACCAGTCAGACACAGAGGACGAAGTGGACTCTGACTT
TGACATTGATGAAGGGGATGAACCATCCAGTGATGGAGAAGCAGAAGAGCCAAGAAGGAAGCGCCGAGTAGTCAC
CAAGGCCTATAAGGAACCTCTCAAGAGCTTAAGGCCTCGAAAGGTCAACACCCCGGCTGGTAGCTCTCAGAAGGC
GCGAGAAGAGAAGGCACTACTGCCATTAGAACTACAAGATGACGGCTCTGACAGTCGGAAGTCTATGCGTCAGTC
TACAGCTGAGCATACACGACAAACGTTCTTCGGGTACAGGAGAGGCAGGGCCAGTCAAGACGGCGAAAGGGGCC
CCACTGTGAGCGGCCACTAACCCAGGAGGAAGTCTCCGGGAGGCCAAGATCACAGAAGAGCTTAATTTACGGTC
ACTGGAGACATATGAGCGGCTCGAGGCTGATAAAAAGAAGCAGGTTTCATAAGAAGCGGAAGTGCCCCGGGCCCAT
AATCACCTATCATTAGTGACAGTGCCACTTGTTGGGGAGCCAGGCCCAAGGAAGAGAACGTTGACATAGAAGG
ACTTGATCCTGCTCCCTCGGTGTCTGCATTGACTCCTCATGCTGGGACTGGACCCGTCAACCCCCCTGCTCGCTG
CTCACGTACCTTCATCACTTTTAGTGATGATGCAACTTTCGAGGAATGGTTCCCCAAGGGCGGCCCCCAAAGT
CCCTGTTTCGTGAGGTCTGTCCAGTGACCCATCGTCCAGCCCTATACCGGGACCCTGTTACAGACATACCTATGC
CACTGCTCGAGCCTTCAAGATCATTTCGTGAGGCTTACAAGAAGTACATTACTGCCCATGGACTGCCGCCCACTGC
CTCAGCCCTGGGCCCCGGCCCCGCCACCTCCTGAGCCCCCTCCCTGGCTCTGGGCCCCGAGCCTTGCGCCAGAAAAT
TGTCATTAAATGAAGAGATGTCTAGTCCTCAGAACTTCTTTTCCTGCCCTGATTGGGGCTCTTGCTGTTCCGTTT
CTTCTCCCTGCTTCTCCCCTTTGTCTCTCTGATCTTTGCCTAATCTGTTTCTTTTCTTTTCCCCTAGTTCTT
ACAGGTTTCGTTGTGTTTTTTAATCTAATAAAATAGAAAGATCCCTTTT

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FIGURE 351

MSLAGGRAPRKTAGNRLSGLLEAEEEEDEFYQTTYGGFTEESGDDEYQGDQSDTEDEVDSDFDIDEGDEPSSDGEA
EEPRRKRRVVTKAYKEPLKSLRPRKVNTAGSSQKAREEKALLPLELQDDGSDSRKSMRQSTAETRQTFLRVQE
RQGQSRRRKGPHERPLTQEELLREAKITEELNLRSLTYERLEADKKKQVHKKRKCPGPIITYHSVTVPVLPVGE
GPKEENVDI EGLDPAPSVSALTPHAGTGPVNPPARCSRTFITFSDDATFEWFFQGRPPKVPVREVCPTVRPAL
YRDPVTDIPYATARAFAKIIREAYKKYITAHGLPPTASALGPGPPPPEPLPGSGPRALRQKIVIK

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FIGURE 352

CCTGGCTTTGTGCATTGGGTTCTGGTGCCTGATGGACACATTTTCCAGTTACAGGCCGAATGGTCTCAATGTAG
CTGAAGAACTGTGCCCAGTATGATCAGTATTACGTATTGCAAATGCAGGAGGTGGCTGTATCTGACAGACCCAGGCC
TTCCAGCTCCGACAGATCCAGTTCTGGGATGGGCATCCTCCAGAAAAGAAAGGAAGTGTACTGGCTACTCACAGG
GTCCCTCATAGCTTCTAGAAAAGAAACCACCTTGTGAGTCTTCATGCTACAGCAACTTCTTTGTGGCCCATGGCCT
TTCCTTGCTTAGATACTCCACATACTGTCTCCCCGAGGGGCGGCGGCTTGAGGGGCTGCAGAGGCACCCTCC
CACGTCCCGCGCAGTGCAGTGCCTCCGAGTCCAGAGGGGAGCAGTGCGCCGGGCTCCGAGCCGGACGGGTTTCG
TAATCGCGTCGCCGCCGCTTCCGCCCTCAGCCGGCCCCACCTCTGCCGGCTCGTACTCGGCTCCCCACCTCGCC
GCAGAGCTAGCCCGGAAGCCACACTGGCGGCCACGGAGCAGAGTCCCTCACCCCCACCAGCTGTAGCTGAACG
TCTGGATGGTGGAGAAGAGCAGGTGAGGCCGTGCAGTTGGTCCCCTGGCCCGCCTGCCGCGCCGGCCGGGCCAGG
CGGAGACACACCGGATGCGGGGTGTGGGGGAGGCGGGTGTCTGGGCTGCAGAGATGCTGGGGTGGTGGGAAAGG
GGTGCGCCGCCGGGGTGGCCGTAGTCATCCACGCTCCTGGGGTGCAGCAGGCTGAGGCCGTGAAGAGTAGAAGGA
AAAGAAGGAAGTGAATGTTGGGGGAGGTGGGAGGGAGAGGGTCCGAAAGATTCCAGAGAGGTCCAGTCCGGT
TAAGGGTTGAGAACAGCAGAGAACTTCTAGGTAGAGTTGTGTAGTGGGGGAGACAGATACGGAATCTGTGTGAT
TGAATATATTTGGGGAGGGGAGGCTTAGGGCCTAGCCCTCTTTCTCTTAAGCCCCCAGAAACCTTTCTGGGG
AAGGGAAGGTTGGTGTGGGCCGTCACTTGGCTGAAATATGGAGTCCACACCGCTTCTCCAGAGTCCCTCAGCA
GCCCTCCATGTCTCGGGGTCTCCACACAGGGACCAGCTGCTGCCCCGGGCTTCTAGCCAGAATTGCCATGCCAT
TCTCTCGATTCTTTCTTTCTCTCCAGCTGCTTCATGTGAGGGCTTGTTCAGGCCGCGGGTTGGAGGCCTTAGGGCC
AGAGGCGGTGGGACCGGGAGAACCGGTTTGGGGCCCGAACAGGACCAGAGAACTAGCCTGTACATCCTTCCTCCC
TGGCACCTCTTTCCCATCCCTTCTGCTCACCTCCCAACAGCTCTGAGACCTCAAGTCCTAGTATGATCTTGGTG
GGGGCGGGGGTGGCTTTCCCGGTTCCATATTTCACTCTTGCCATTTGGAAGTCAAGAGAGGTGAGTCTGAGCA
CCACTTGGCTCTCAGGACGTGGCCTTATGAGGTCTAATCCTCATCCCTCCTGTTGTTTCTCAGCCCCCTTCCCTA
TTCAGTGTGGGGTTGGATTCCGGTGGCTCTTCCGCCTGGGCTGACCAGCTCAGGACTTCATTTTTCTCAACCCA
CTCTCTTCTGGCTGCTTTAAAGAAGAGTGGCCGCCAGTGGCTCTTACTTCCTTTTCTGGCTTTGTTCCCATCCCC
CACTGCCCTGCGCTACCATCACATTACCCCTGACCTGTCTTCTTCACACTCTGACCCACCCCTCAAGTTTCAGAG
ACCCTAATGTCTTAGGGAATGGAATTTCTGGTCACTTCTCGTCATCATTGGTCAATTCATGCCAAGTCCACAC
ACACGCTTTCCCTCCACCCAGCTCTGGTCAAGTCCCTGGAAGAAACAGAAATGGCCTTGTTCTCTCCACTGCC
CCTTTCCCTCTCTCCTTCTCCTCCCCCTCTCTTCTCTTCCCTCCAGCACTATCCACCTCTGTCCCTCAGCTTG
AGCAGAGTGGGGGATGTTGAGGGAGAGTCCAGTCACAGTACAGCCTGCCTGCTGGTGTGGGGGTTTCTCTAAT
TCTTCATTTTTCCCCAACCTTACCACCTGCCACCACCACCATCAGGACAAACCTATGACTGACTCACTGACGT
CCCACTGACCACAGCTCCCTCTCTGGACAGCGTGTTTAGCTTCCGCTCCTTCTGGTTACTCCTCCCTTCCAGT
GGTGAGAAGAGAAGAGAAAGCCAGCCTCCTGGGTTCTCCCCTCCCCTAGAAGCTACATTTGAGTGTGTTGTGTA
TCTCATCTCAAGGCTGTT

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FIGURE 353

AGTCAGCACGGGGGTGCTGGAAGAGATCGGGAATAATAGCGCAGACCAATGAGCCTAGGGAGATGCTTTCATCGT
CTCTCCTTCCCTCAAGTGTTCTGGAACCTATCATTGAATTAGCCGAGTCAGGCAGGAGGGGGCGGGGAATCCTT
CCGCCCTTCTTAGGAGGGGGCTGCATTGCAGGGGGAGAGTGAAGTGACAGACTCAGTCACTGAAGAGGGAAAAGGA
GTGAGAAGACAAAGCCGTCAAAGCCCCAACAGCTTTGTATTTCTCCAGCCCGGCGCAGACCCCGGAGCTCCCGAG
GCACTCCCTCCATCTTTGGAACACGCCAGTAATTGATTGATAACAGGAAGCTATGAGGGACCCCTGTGAGTAGCCA
GTACAGTTCCTTTCTTTTCTGGAGGATGCCCATCCAGAACTGGATCTGTCTGGAGCTGGAAGGCCTGGGTCTGTC
AGATACAGCCACCTACAAGGTCAAAGACAGCAGCGTTGGCAAAATGATCGGGCAAGCAACTGCAGCAGACCAGGA
GAAAAACCCTGAAGGTGATGGCCTCCTTGAGTACAGCACCTTCAACTTCTGGAGAGCTCCCATTGCCAGCATCCA
CTCCTTCGAACTGGACTTGCTCTAAGGCCAAGACTTCTCTCTCCCATCACCTTGCCCTCATTGTCTTCCCTCTCA
AGCCCTTCCCTTCCACTCCTTTCCCATTTTAATCTTGTTCTCTCCCTACTGTGTTGGTGGTGCTGATGAATCTG
CCAGAGTTGAGTTCATGTATTTATTTATCTATCTGTCTACTCCATTTCTCTCAAAGCCCTCAAGTCACAAAGT
AAATGGTTCAAGCAATGGAGTACTGGGTACAGGGATTCCCTCCTTTCCCCCCCCAAATATTAAGTCCAGAACTAG
GCCTGACTGGGGACACCTGAGAGTAGTATAGTAGTGCAAAATGGAAGACTGATTTTGGACTCTATTATAATCAGC
TTCAGAGATTCCTTAAACCTTCCTAATTTCTGCTCCAGGGCAGTAAACACAAATATTTCTTCAAGGGGTGATGA
AAACCTCGGAAGTTTTAATTTGAGGTTATCTGCTACGAAACAGTATTTCTAAAAGGCTAAAGTGATAAGTCTCTT
GCTTTTTTTTGATCCTGCTCTTATATTCTTTTTTTTCTCAGAGAAATCAGGAGGGTAGTTAGAGGTATAAAACA
GGAGGAAATATTATGGAATGAAAATAGGGAAAATAATTGAATCATTTTAGAAGTAGCTAATTTCTTTTCTCAA
AAGAGTGTCCTTCTTCACACCTACTCACTTTACAACCTTGCTCCTAACTGTGGGTGAAAACCTCTAGCTAAAGA
AAGTTATCAAATCTTAACATGCATTCCCTACTATTATGATAGTTTTTAAGGTTTCAATTCAATCTTCTGAACGGCA
TAAGTCCTATTTTAGCCTTACCTCCTGCATTTGCAATACGTAATACTGATCAGTGGGCACAGTTCTTCAGCTACA
TTGAGACCCTGAAATGAACAATTATATTCTGACTCGACATCTTGTCCCCAATCCTTCCAAAATATTGATGGTGA
TTTGTGCTACCATTACTCGTTTTATTTAATAAAGACATTCAATCCC

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FIGURE 354

GGGGGCGGGGCGACGCCGGA CTCCGGAGCGCCCGCTTACGCAGTTCTCCCGGGGTCCGAGGCCGATTCCGCCGTG
TGGCGGGTTTCGAGTCCCGCCTCCTGACTCTGGCCTCTAGTCCCTGAGTCCCGGGCGGGGTGCATTCTGTCGGGGAA
ACCTCTCCTCGACCAGGGGCACCTCTACTCGACCAGGGGCGACGGCGTACTTTGGGCTTCATCATCGAGGACTAC
CTGCAGGGTTGTGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCTGTGATTGTG
GACTCCACAGTGTCTGCTCTTGGCCCTGGCTTTTTACCTAGCAAAGACAACCTGAGGCTGAGGAAGTCTTTGTGCCA
GTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGGTGACATTGTCTTCTTTCTTCAGAAGGTTTCATATTCCA
GAGAGTATCTTGATTTTTTCGGGATGAGATTGACCTCCATGCATTATACCAGGCTGGCCAACTCACCCCTCATCCTT
GTCGACCATCATATCTTATCCAAAAGTGACACAGCCCTAGAGGAGGCAGTAGCAGAGGTGCTAGACCATCGACCC
ATCGAGCCGAAACACTGCCCTCCCTGCCATGTTTCAGTTGAGCTGGTGGGGTCTGTGCTACCCCTGGTGACCGAG
AGAATCCTGCAGGGGGCACCAGAGATCTTGGACAGGCAAACCTGCAGCCCTTCTGCATGGAACCATCATCCTGGAC
TGTTGCAACATGGACCTTAAATTTGGAAAGGCAACCCCAAAGGACAGCAAATATGTGGAGAACTAGAGGCCCTT
TTCCAGACCTACCCAAGAGAAATGATATATTTGATTCCCTACAAAAGGCAAAGTTTGATGTATCAGGACTGACC
ACTGAGCAGATGCTGAGAAAAGACCAGAAGACTATCTATAGACAAGGCGTCAAGGTGGCCATTAGTGCAATATAT
ATGGATTTGGAGGCCTTTCTGCAGAGGTCTAACCTCCTTGACAGATCTCCATGCTTTCTGCCAGGCTCACAGCTAT
GATGTCTGGTTGCCATGACTATCTTTTTCAACACTCACAAATGAGCCAGTGCGGCAGTTGGCTATTTTCTGTCCC
CATGTGGCACTCCAAACAACGATCTGTGAAGTCTTGGAAACGCTCCCACTCTCCACCCCTGAAGCTGACCCCTGCC
TCAAGTACCCACCCTAACCTCCATGCCTATCTTCAAGGCAACACCCAGGTCTCTCGAAAGAACTTCTGCCCTG
CTCCAGGAAGCCCTGTGCAGCATATTTTGACTCCATGAAGATCCCTTCAGGACAGCCTGAGACAGCAGATGTGTCC
AGGGAGCAAGTGGACAAGGAATTGGACAGGGCAAGTAACTCCCTGATTTCTGGCCTGAGTCAAGATGAGGAGGAC
CCTCCGCTGCCCCCGACGCCCATGAACAGCTTGGTGGATGAGTGCCCTCTAGATCAGGGGCTGCCTAAACTCTCT
GCTGAGGCCGTCTTCGAGAAGTGCAGTCAGATCTCACTGTACAGTCTACCACAGCCTCCCTGTCCAAGAAGTGA

CTGTTGAGAGGCGAGGAGGTAGTGGGTGAGGCTACCTGACTCACTTCAAATGCATGTTTTGAGATGTTTGGAGAT
TCAGCAATTCTGTCTTCATTGCTCCAGGATCTGGTATACTGTTCTCATAAACTGAGAGGAGAAAAAAGTGAAA
GAAAGCAGCTGCTTTAAGAATGGTTTTCCACCTTTTCCCCCTAATCTCTACCAATCAGACACATTTTATTATTTA
AATCTGCACCTCTCTCTATTTTATTTGCCAGGGGCACGATGTGACATATCTGCAGTCCCAGCACAGTGGGACAAA
AAGAATTTAGACCCCAAAGTGTCTCGGCATGGATCTTGAACAGAACCAAGTATCTGTCTGGAAGTGAACATTC
ATCGATGGTCTCCATGTATTCAATTTATCACTTGTTTCAATCAAGTATTTATTGAATACCTGCCTCAAGCTAGAGA
GAAAAGAGAGTGCCTTTGGAAATTTATCCAGTTTTTCAGCCTACAGCAGATTATCAGCTCGGTGACTTTTTCTTT
CTGCCACCATTTAGGTGATGGTGTGTTGATTGAGAGATGGCTGAATTTCTATTCTTAGCTTATTGTGACTGTTTCA
GATCTAGTTTGGGAACAGATTAGAGGCCATTGTCTTCTGTCTGATCAGGTGGCCTGGCTGTTTCTTTGGATCCC
TCTGTCCCAGAGCCACCCAGAACCCTGACTCTTGAGAATCAAGAAAACACCCAGAAAGGCCTTAATGACCTCATA
GGCACTCTTCCAAAAGACAACAGAACTGGAATGAGAGGCCTGGGTCTGTCTCCTGCCTTAGCAGGCCTATCAAT
TTCTTGTCATCTCTTTTTTTTCTTGCTCACATTAAAAGGAAGCATGGAGTTCTAATGCTCCCATAAACTATGTA
TTTTGGCAAGACACTTCACTACTCCAGGTCTCACTTTCCCCATCTGTAAAACAGGGTTTGGACTAGGTGTTCCCT
GGTATTCTGTGATCTGCCTCTTGCTGCCATTCTTTCTCTCCTCTGCTTCTCTGTATTTTTCTTCTGTATCCCTG
GGGGTGCTCAGGTTCACTTGATTGTCTGTATTTCTGTGTGGTTGTAGCAAGGACTCAGCCTCATGTAGCACGAAT
AGGGGTGTGGTTCATGGCGTGTGACCCAGCAGAGCACTCCCTCCCACTAAGTTGTTCTGCATGTGTAGAGTCTC
CCATTTTTTTTTAACGCAACCCCTTTCCCTTTTCTACCCACAGCTCTGTTCCATGTAAGTTGCCAACAGTTT
CACTGAACAGTGGGGTATGTGATGGTTTTGGCATGACATCTTCAGTATGAGGGGGACAGTTTGAAGTTCACTTTGA
GGGTGTGATGTCTGTAGCTATGTGGAAGGTAAAAATAGTGGTGTGATCATGAACCAAAGGAATTTATGTTTTGTA
ACTTGGGTACTTTATTTTGCATTTTGTATATACTATTAAATAATTTTTTCTGTT

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FIGURE 355

MEDYLQGCRAALQESRPLHVVLGNEACDLDSTVSALALAFYLAKTTEAEEVFVPVLNIKRSELPLRGDIVFFLQK
VHIPESILIFRDEIDLHALYQAGQLTLILVDHHILSKSDTALEEAVAELDHRIEPKHCPPCHVSVELVGSCAT
LVTERILQGAPEILDRQTAALLHGTIILDCVNMDLKIGKATPKDSKYVEKLEALFPDLPKRNDIFDSLQAKFDV
SGLTTEQMLRKDQKTIYRQGVKVAISAIYMDLEAFLQRSNLLADLHAFCAHSYDVLVAMTIFFNTHNEPVRQLA
IFCPHVALQTTICEVLEERSHSPPLKLTPASSTHPNLHAYLQGNTQVSRKKLLPLLQEALSAYFDSMKIPSGQPET
ADVSREQVDKELDRASNSLISGLSQDEEDPPLPPTPMNSLVDECPLDQGLPKLSAEAVFEKCSQISLSQSTTASL
SKK

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FIGURE 356

GAAACAAGCACTGGATTCCATATCCCACTGCCAAAACCGCATGGTTCAGATTATCGCTATTGCAGCTTTCATCAT
AATACACACCTTTGCTGCCGAAACGAAGCCAGACAACAGATTTCATCAGCAGGATGTGGGGGCTCAAGGTTCTG
CTGCTACCTGTGGTGAGCTTTGCTCTGTACCCTGAGGAGATACTGGACACCCACTGGGAGCTATGGAAGAAGACC
CACAGGAAGCAATATAACAACAAGGTGGATGAAATCTCTCGGCGTTTAATTTGGGAAAAAACCTGAAGTATATT
TCCATCCATAACCTTGAGGCTTCTCTTGGTGTCCATACATATGAACTGGCTATGAACCACCTGGGGGACATGACC
AGTGAAGAGGTGGTTCAGAAGATGACTGGACTCAAAGTACCCCTGTCTCATTCCCGCAGTAATGACACCCTTTAT
ATCCCAGAATGGGAAGGTAGAGCCCCAGACTCTGTCTGACTATCGAAAGAAAGGATATGTTACTCTGTCAAAAAT
CAGGGTCAGTGTGGTTCTGTGGGCTTTTAGCTCTGTGGGTGCCCTGGAGGGCCAACTCAAGAAGAAAACCTGGC
AAACTCTTAAATCTGAGTCCCCAGAACCTAGTGGATTGTGTGTCTGAGAATGATGGCTGTGGAGGGGGCTACATG
ACCAATGCCTTCCAATATGTGCAGAAGAACCAGGGGTATTGACTCTGAAGATGCCTACCCATATGTGGGACAGGAA
GAGAGTTGTATGTACAACCAACAGGCAAGGCAGCTAAATGCAGAGGGTACAGAGAGATCCCCGAGGGGAATGAG
AAAGCCCTGAAGAGGGCAGTGGCCCGAGTGGGACCTGTCTCTGTGGCCATTGATGCAAGCCTGACCTCCTTCCAG
TTTTACAGCAAAGGTGTGTATTATGATGAAAGCTGCAATAGCGATAATCTGAACCATGCGGTTTTGGCAGTGGGA
TATGGAATCCAGAAGGGAAACAAGCACTGGATAATTAAAAACAGCTGGGGAGAAAACTGGGGAAACAAAGGATAT
ATCCTCATGGCTCGAAATAAGAACAACGCCTGTGGCATTGCCAACCTGGCCAGCTTCCCCAAGATGTGACTCCAG
CCAGCCAAATCCATCCTGCTCTTCCATTTCTTCCACGATGGTGCAGTGTAACGATGCACTTTGGAAGGGAGTTGG
TGTGCTATTTTTGAAGCAGATGTGGTGATACTGAGATTGTCTGTTCAGTTTCCCCATTTGTTTGTGCTTCAAATG
ATCCTTCCTACTTTGCTTCTCTCCACCCATGACCTTTTTCACTGTGGCCATCAGGACTTTCCTTGACAGCTGTGT
ACTCTTAGGCTAAGAGATGTGACTACAGCCTGCCCTGACTGTGTGTGCCAGGGCTGATGCTGTACAGGTACAG
GCTGGAGATTTTACATAGGTTAGATTCTCATTACGGGACTAGTTAGCTTTAAGCACCCCTAGAGGACTAGGGTA
ATCTGACTTCTCACTTCCTAAGTTCCCTTCTATATCTCAAGGTAGAAATGTCTATGTTTTCTACTCCAATTCAT
AAATCTATTACATAAGTCTTTGGTACAAGTTTACATGATAAAAAGAAATGTGATTGTCTTCCCTTCTTTGCACTT
TTGAAATAAAGTATTTATC

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FIGURE 357

MWGLKVLLLPVVSFALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIHNL EASLGVHTYELAM
NHLGDMTSEEVVQKMTGLKVPLSHSRSDTLYIPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEG
QLKKKTGKLLNLSPQNLVDCVSENDGCGGGYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYR
EIP EGNEKALKRAVARVGPVSVAIDASLTSFQFYSGVYYDESCNSDNLNHAVLAVGYGIQKGNKHWI IKNSWGE
NWGNKGYILMARNKNNACGIANLASFPKM

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FIGURE 358

GGCACGAGGAAGGAACATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCT
ACACACGGCAGTTGTGTGCGACCCCTCCACGCTGGTTGGCAGAGCGGCTTGGCCTTTTTGAGGAGCTGTGGGCTGC
TCAGGTAAAGAGATTAGCAAGCATGGCACAGAAGGAACCCCGGACTATTAAGATATCACTTCCTGGAGGCCAGAA
AATTGATGCTGTGGCATGGAACACAACCCCTACCAACTAGCCCGGCAGATCAGTTCAACACTGGCAGATACTGC
AGTGGCTGCTCAAGTGAATGGAGAACCTTATGATCTGGAGCGGCCCTTGGAGACAGATTCTGACCTCAGATTTCT
GACATTCGATTCCCCAGAGGGGAAAGCAGTGTTCTGGCACTCCAGCACCCATGTCCTGGGGGCAGCAGCTGAACA
ATTCTAGGTGCTGTTCTCTGCAGAGGTCCAAGTACAGAATATGGCTTTTACCATGATTTCTTCCTGGGAAAGGA
GAGGACAATCCGGGGCTCAGAGCTGCCTGTTTTGGAGCGGATTTGCCAGGAACCTTACAGCTGCTGCTCGACCCTT
CCGGAGGCTAGAGGCTTCACGGGATCAGCTTCGCCAGTTGTTCAAGGATAACCCCTTTAAGCTTCACCTGATTGA
GGAGAAAGTGACAGGTCCAACAGCAACAGTATATGGGTGTGGCACATTGGTTGACCTTTGCCAGGGCCCCACCT
TCGGCATACTGGACAGATTGGAGGACTGAAGCTGCTATCGAACTCATCATCCTTATGGAGGTCTTCAGGGGCCCC
AGAGACACTGCAGAGAGTGTGACGGGATTTCTTCCCCACAACAGAATTGCTGAGGGTCTGGGAAGCATGGAGGGA
GGAAGCAGAATTGCGGGACCACCGGCGCATTGGGAAGGAACAGGAGCTCTTCTTCTTCCATGAACTGAGCCCTGG
GAGCTGCTTCTTCTGCCACGAGGGACAAGGGTGTATAATGCACTAGTGGCGTTTATCAGGGCTGAGTATGCCCA
TCGTGGTTTTCTCCGAGGTGAAAACCTCCACACTGTTTTCTACGAAGCTCTGGGAACAGTCAGGGCACTGGGAGCA
TTATCAGGAAGACATGTTTGGCGTGCAGCCCCAGGCTCTGACAGGCCTCCAGCTCCAGAGTGACGATTCTAC
CAGGCATATCACAGATACACTCGCCCTCAAGCCTATGAACTGCCCTGCACACTGCCTGATGTTGCCCCACCGGCC
CAGATCCTGGCGGGAACCTGCCCTGCGACTAGCTGACTTTGGGGCTCTACACCGGGCCGAAGCCTCTGGTGGTCT
GGGGGGACTGACCCGACTGCGGTGCTTCCAGCAGGATGACGCTCACATCTTCTGTACAACAGATCAGCTGGAAGC
AGAGATCCAAAGCTGTCTTGATTTCTCCGTTCCGTCTATGCCGTTCTTGGCTTCTCCTTCCGCCTGGCACTGTC
CACCCGGCCATCTGGCTTCTTGGGGACCCTTGCCCTTTGGGACCAGGCCGAACAGGTCTTAAACAGGCCCTGAA
GGAATTTGGAGAACCCTGGGACCTCAACTCTGGAGATGGTGCTTCTATGGACCTAAGATTGACGTGCACCTCCA
CGATGCCCTGGGCCGCGCCACATCAGTGTGGGACAATTCAGCTTGACTTCCAACCTGCCCTGAGATTTGACCTCCA
GTATAAGGGGCAGGCGGGTGCCCTGGAGCGTCCAGTCCTCATTACCGAGCAGTGCTCGGTTCTGTGGAAAGACT
GTTGGGAGTGCTGGCAGAAAGCTGCGGGGGGAAATGGCCACTGTGGCTGTCCCGTTCCAGGTGGTGGTCATCCC
TGTGGGGAGTGAGCAAGAGGAATACGCCAAAGAGGCACAGCAGAGCCTGCGGGCTGCAGGACTGGTCAGTGACCT
GGATGCAGACTCTGGACTGACCTCAGCCGAGAAATCCGCCGGGCCCAGCTTGCCCACTACAATTTTTCAGTTTGT
GGTTGGCCAGAAAGAGCAAAGTAAGAGAACAGTGAACATTTCGACTCGAGATAATCGTCGCCTTGGGGAGTGGGA
CTTGCTGAGGCTGTGCAGCGACTGGTGGAGCTACAGAACACGAGGGTCCCAAATGCCGAAGAAATTTCTGAGC
CTTTGTACATAGATGAGGCAAAAACCTGCGAGTGCCATCAGCCTCCCTCACATGGGAGACCCCAACCCAGCTGAC
AATGTGGAGCCCCCAGAACTTCAGAACTGTGTGGAGGCACATGTCTGCTCTCCTGAAAAGAGACTTGGTTTGGGG
ACCCACAAAAAGGAGGGAAGCTGTAGCTGTTTGGATGTGAGGAGAATGAAACTACAAAAA

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FIGURE 359

MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQKIDAVA
WNTTPYQLARQISSTLADTAVAAQVNGEPYDLERPLETDSDLRFLTFDSPEGKAVFWHSSTHVLGAAAEQFLGAV
LCRGPSTEYGFYHDFFLGKERTIRGSELPVLERICQELTAAARPFRRLEASRDQLRQLFKDNFFKLHLIEEKVTG
PTATVYGCGLVDLCQGPFLRHTGQIGGLKLLSNSSSLWRSSGAPETLQRVSGISFPTTELLRVWEAWREEAELR
DHRRIGKEQELFFFHELSPGSCFFLPRGTRVYNALVAFIRA EYAHRGFSEVKTPTLFSTKLWEQSGHWEHYQEDM
FAVQPPGSDRPPSSQSDDSTRHITDTLALKPMNCPAHCLMFHRPRSWRELPLRLADFGALHRAEASGGLGGLTR
LRCFQQDDAHIFCTTDQLEAEIQSCLDFLRSVYAVLGF SFRALSTRPSGFLGDPCLWDQAEQVLKQALKEFGEP
WDLNSGDGA FYGPKIDVHLHDALGRPHQCGTIQLDFQLPLRFDLQYKGQAGALERPVLIHRAVLG SVERLLGVLA
ESCGKWPLWLSPFQVVVIPVGSEQEEYAKEAQQSLRAAGLVSDLDADSGLTLSRRIRRAQLAHYNFQFVVGQKE
QSKRTVNIRTRDNRRLGEWDLPEAVQRLVELQNTRVPNAEEIF

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FIGURE 360

ACCAGATCCCAGAGGCTGAACACCTCGACCTTCTCTGCACAGCAGGTCCAGCATCCTTTGAAGCATGAGTTCTTA
CCAGCAGAAGCAGACCTTTACCCACCCACCTCAGCTTCAACAGCAGCAGGTGAAACAACCCAGCCAGCCTCCACC
TCAGGAAATATTTGTTCCCACAACCAAGGAGCCATGCCACTCAAAGGTTCCACAACCTGGAAACACAAAGATTCC
AGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGA
GCCAGGTTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGTTGTACCAAGGTCCCTGAGCC
AGGCTACACCAAGGTCCCTGAACCAGGCAGCATCAAGGTCCCTGACCAAGGCTTCATCAAGTTTCCTGAGCCAGG
TGCCATCAAAGTTTCCTGAGCAAGGATACACCAAAGTTCTGTGCCAGGCTACACAAAGCTACCAGAGCCATGTCC
TTCAACGGTCACTCCAGGCCCAGCTCAGCAGAAGACCAAGCAGAAGTAATTTGGTGCACAGACAAGCCCTTGAGA
AGCCAACCACCAGATGCTGGACACCCCTCTTCCCATCTGTTTCTGTGTCTTAATTGTCTGTAGACCTTGTAATCAG
CACATTGTCACCCCAAGCCATAGTCTCTCTTATTTGTATCCTAAAAATACGTACTATAAAGCTTTTGTTCACA
CACACTCTGAAGAATCCTGTAAAGCCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGTCTTCGGCTGCTCA
GGGTTTCATCTGAAGATTGGAATGAAAAGAAATGCATGTTTCCTGCTCTTCCCTCATTAAATTGCTTTTAATTCCA

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FIGURE 361

CAGTTCTAAGGGACCATAACAGAGTATTCCTCTCTTCACACCAGGACCAGTCACTGTTGCAGCATGAGTTCCCAGC
AGCAGAAGCAGCCTTGACCCCCACCCCTCAGCTTCAGCAGCAGCAGGTGAAACAGCCTTGCCAGCCTCCACCTC
AGGAACCATGCATCCCCAAAACCAAGGAGCCCTGCCACCCCAAGGTGCCTGAGCCCTGCCACCCCAAGTGCCCG
AGCCCTGCCAGCCCAAGGTTCCAGAGCCATGCCACCCCAAGGTGCCTGAGCCCTGCCCTTCAATAGTCACTCCAG
CACCAGCCCAGCAGAAGACCAAGCAGAAGTAATGTGGTCCACAGCCATGCCCTTGAGGAGCCGGCCACCAGATGC
TGAATCCCCTATCCCATTTCTGCGTATGAGTCCCATTTGCCTTGCAATTAGCATTCTGTCTCCCCCAAAAAGAAT
GTGCTATGAAGCTTTCTTTCTACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTT
TCAGCTGCTCAGAATTCATCTGAAGAGAGACTTAAGATGAAAGCAAATGATTCAGCTCCCTTATACCCCCATTAA
ATTCACTTTCAATTCCA

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FIGURE 362

MSSQQQKQPCTPPPLQQQVVKQPCQPPPEPCIPKTKEPCHKVPEPCHKVPEPCQPKVPEPCHKVPEPCPS
IVTPAPAQQKTKQK

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FIGURE 363

ATGACAATTGCAAAGGTGGTAGAAGCTCATGACCAGGTGACAGACAGACACAGAACACATCAACAGAATTGTCTG
ATGGTTCCCAGGGAGAGAGCTGCTGCTCTTTCTTCCGAAGCTCTGGGAGCTGGCACAGCTGAGGACTTCCTTTTC
TTAGCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAGAAAGGGAATCTTTTGCTGTCACAGATCATCACAGGCA
GGCCACAGGTTAAGGAGAAAGAAGCTCCCTGTGCATCCATGGAAGGCTTTGGTGAGAAGATGCAAGTGGAGCTGT
GGAACGAGGGAGAGAGCTGCTGCTCTTTCTTCCGAAGCTCTGGGAGCTGGCACAGCCCAGGACTTCCTTTGCTCA
GTCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAGAAAAGAACTTTTTGCTGTCAGGGATCATCATGGGCAGA
TTACTGGCTAAGGAGAAAGAAGCTCCCTGTGTATCCATGGTAGGCTTTGATGAGAAGATGAAGGTGGAGCTGTGG
AACGAGATACTTTATTTCAGGGAGTGAAAGAAAAGTGACAATTGCACAGGTGGTAGAAGCTCATGCCCAGGTGAAA
GACAGACACAGAACACATCAACAGAATTCTCTGATGGTTCCCAGGCACACAGCTGCAGCTCTTTCTGCTGAAGCT
CTGGGAACTGACAAAGCCAAGGTTCCCTTTGCTCAGTCTCCACCTGGACAGTGGCATCTCCACCTGGACAGTGGCA
ATATGGCAGCCTCAGAAAGGAAACCTTTTGCTATCAGGGATCATCATGGGCAGATCACTGGCTAAGAGGAAAGAA
GCTAACTGTGTATCCATGGTAGGCTTTGATGAGAAGATGCAGGTGAAGCTGTGGAACAAGTGCAGGCACCAGAGC
AGCAGCAGCCCTAGTGCCCCCAGCATCTCAGACAGGCTCACTTTACAAGTTGAGGTGATGAACTTGAAAGCTAAGA
GTTCTTCACAGTCCAGGGAGTGAAAGGAAAGTGACAACTGCACAGGTGGTGGAAGCTCATGCCCAGGGGACAGAC
AGACACAGAAAACATCAACAGAATTCTCTAATGGTTCCCAGGGAGAGAGCTGCTCTTTCTTCTGAAGCTCTGGGA
GCTGGCACAGCCCAGGACTTCCTTTGCTCAGTCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAAAAAGAAAAC
CTTTTGCTATCAGAGATCATCACAGGCCGATCACAGGCTAAGAGGAAAGAAGCTCCCTGTGTATCCCTGGATGGC
TTTGATGAGAAGATGCAGGTGGAGCTGTGGAACGAGCATCAAATCAACATTTCATAGGATTGGATCAACCAAATT
GCTGTATTTCAGATTAAATTCAACATTTTCAGGGCACAAAGAACAGAGGAACTCCAGGAAGCCGACTCACCAGGTTT
TCCAAGGCAGATCGGTGCTTAGGAGACTATAATCCGTGTGGACAGCCACCTAGAAGCAAACCTTCTGGCCATGGTA
GCACAGACTGTGTATCATTTCCAGGTTCTGTGGCCAAAGCCCCCAAACAGGAATCACGTAGTGAAGTTCAAAGAA
ACTTCCAAAAGGTGCAGCAAAAGAAAGAAAAGAAAACATAA

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FIGURE 364

AAACACTCTGTGTGGCTCCTCGGCTTTGGGACAGAGTGCAAGACGATGACTTGCAAAATGTCGCAGCTGGAACGC
AACATAGAGACCATCATCAACACCTTCCACCAATACTCTGTGAAGCTGGGGCACCCAGACACCCTGAACCAGGGG
GAATTCAAAGAGCTGGTGCGAAAAGATCTGCAAAATTTTCTCAAGAAGGAGAATAAGAATGAAAAGGTCATAGAA
CACATCATGGAGGACCTGGACACAAATGCAGACAAGCAGCTGAGCTTCGAGGAGTTCATCATGCTGATGGCGAGG
CTAACCTGGGCCTCCACGAGAAGATGCACGAGGGTGACGAGGGCCCTGGCCACCACCATAAGCCAGGCCTCGGG
GAGGGCACCCCTTAAGACCACAGTGGCCAAGATCACAGTGGCCACGGCCATGGCCACAGTCATGGTGGCCACGGC
CACAGGCCACTAATCAGGAGGCCAGGCCACCCTGCCTCTACCCAACCAGGGCCCCGGGGCCTGTTATGTCAAAC
GTCTTGGCTGTGGGGCTAGGGGCTGGGGCCAAATAAAGTCTCTTCCTCCAA

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FIGURE 365

MTCKMSQLERNIETIIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLS
FEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

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FIGURE 366

GAGCAGCCTTCCTGAGAGAGGAGAGAGAAAAGCTCAGGGAGGTCTGGAGCAAAGATACTCCTGGAGGTGGGGAGTG
AGGCAGGGATAAGGAAGGAGAGTATCCTCCAGCACCTTCCAGTGGGTGGGGCAAGTCCGTGGGCATCATGTTGAC
CGAGCTGGAGAAAGCCTTGAACCTCTATCATCGACGTCTACCACAAGTACTCCCTGATAAAGGGGAATTTCCATGC
CGTCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGCTGCAGACGT
CTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGAT
GGGCGTGGCAGCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCCAGAGGCTGGG
CCCCTGGACATGTACCTGCAGAATAATAAAGTCATCAATACCTC

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FIGURE 367

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTTGGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCCATGGCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGCTGA

AAATAAATAGGGAAGATGGAGACACCTCTGGGGGTCCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTGGTCAAATT

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FIGURE 368

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG

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FIGURE 369

ATTCTTCCCCTCTCTACAACCCCTCTCTCCTCAGCGCTTCTTCTTTCTTGGTTTGATCCTGACTGCTGTCATGGCG
TGCCCTCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTC
AAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAA
GCTGCTTTCCAGAAGCTGATGAGCAACTTGGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTC
TTCCTGTCCTGCATCGCCATGATGTGTAACGAATTCTTTGAAGGCTTCCAGATAAGCAGCCCAGGAAGAAATGA

AAACTCCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCAGTGGGCACCTTTTTTTTTTCCA
CCCTGGCTCCTTCAGACACGTGCTTGATGCTGAGCAAGTTCAATAAAGATTCTTGGAAGTTT

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FIGURE 370

MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELP SFLGKRTDEAA FQKLMSNLDSNRDNEVDFQEY
CVFLSCIAMMCNEFFEGFPDKQPRKK

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FIGURE 371

GGTGCTTCTGAGATGTGGGCTTGACACGCTGTTGCTATAGTACGTGTGATCCTGACTGCTGTCATGGCGTGCCC
TCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCT
CAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGC
TTTCCAGAAGCTGATGAGCAACTTGGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTCTTCCT
GTCCTGCAATCGCCATGATGTGTAACGAATTCTTTGAAGGCTTCCCAGATAAGCAGCCCAGGAAGAAATGAAAAC
CCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCAGTGGGCACTTTTTTTTTTCCACCCTG
GCTCCTTCAGACACGTGCTTGATGCTGAGCAAGTTCAATAAAGATTCTTGGAAGTTT

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FIGURE 372

MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELP SFLGKRTDEAAFQKLMSNLDSNRDNEVDFQEY
CVFLSCIAMMCNEFFEGFPDKQPRKK

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FIGURE 373

ACACATTCCCCACCCTCTGGGAGCTCCTAGTCTGAGAGAGGAAACACTCCTGCCCAAGGGAGCTTCCAGTTAGAT
GGCAGAGAGAGATGCCTCTGGCTTCAGGAGTCCCGAGTCTAAGGAGGGAAACGACTCCTTCAGGGAGCTTCCTGC
TCCTAGGCTGTAGCCATGGCTCCTGCCAGACTGCACAGGAGCCCCATCTGCCAGCCGGTGCATGTGGCCCTGCT
CCCCAGAGCCTGCGCAGATGCCATCAAAATGGGACTCTGGTCAACCCTGTCATTTCCCTTCTGGCAGACACTAAAA
TGGGGAGCCCTGCCCTCAGGGGGGTGTCCCAAGTGCCATCAGAGGAGGCTTGGTGA CTCCCAGACACAAGGGAAG
CTTTAGCGTCTGCCCTCAGGGTGAGATGGAGGTATCGCCTCCGGCCTCAGGGAACACAGTCTGAGGGGGAGATG
CAGCCCCTGCCTTCCCATT CAGAGAGGGGTTTTGTGAGGTGGCTTGGGGGCATAGGGCAGAAGTGGATCCTACAG
GCTGAGCTAAGGCCCAAGAGCCTCAGCAGTGTACCCATCACCTGGCACCTCTGCAGCCACAGATCCATGATGTG
CAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCCTGCCAAGAGGGCGACAAGTT
CAAGCTGAGTAAGGGGGAAATGAAGGAACTTCTGCACAAGGAGCTGCCCAGCTTTGTGGGGGAGAAAGTGGATGA
GGAGGGGCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGAGTATGCTGT
TTTCTTGGCACTCATCACTGTGTCATGTGCAATGACTTCTTCCAGGGCTGCCCAGACCGACCCCTGAAGCAGAACTCT
TGACTTCCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTGTATTCAATAAACTTTTTTTG
TCTGTTGATAATATTTTAATTGCTCAGTGATGTTCCATAACCCGGCTGGCTCAGCTGGAGTGCTGGGAGATGAGG
GCCTCCTGGATCCTGCTCCCTTCTGGGCTCTGACTCTCCTGGAAATCTCTCCAAGGCCAGAGCTATGCTTTAGGT
CTCAATTTTGGAATTTCAAACACCAGCAAAAAATTGGAAATCGAGATAGGTTGCTGACTTTTATTTTGTCAAATA
AAGATATTAAAAAAGGC

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FIGURE 374

GGACTGTTGAAGACAGGTCTCCACACACAGCTCCAGCAGCCACATTTGCAACCTTGGCCATCTGTCCAGAACCTG
CTCCACCTCAGGCCCAGGCCAACCGTGCACTGCTGCAATCGGCTCTGAGCTGGAGACGGCGATGGAGACCCTCA
TCAACGTGTTCCACGCCCCTCGGGCAAAGAGGGGGACAAGTACAAGCTGAGCAAGAAGGAGCTGAAAGAGCTGC
TGCAGACGGAGCTCTCTGGCTTCCTGGATGCCCAGAAGGATGTGGATGCTGTGGACAAGGTGATGAAGGAGCTAG
ACGAGAATGGAGACGGGGAGGTGGACTTCCAGGAGTATGTGGTGCTTGTGGCTGCTCTCACAGTGGCCTGTAACA
ATTTCTTCTGGGAGAACAGTGTGAGCAGACAGCCACATTGGGCAGCGCCCTTCCTCTCCACCCTCCCAGACCTGCC
TCTTCCCCCTGCTTCCACCTCACCCCACTTATCCCTCTCCATAACCCACCCCTTGCCCCACCCACCCCAACCCCA
ACCAAGGGCGCAAGAGTAGCGGTCCAAGCCTGCAACTCATCTTTCATTAAAGGCTTCTCTCTCACCAGCAAAAAA
AAAAAA

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FIGURE 375

MGSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVAVDKVMKELDENG DGEVDFQEY
VVLVAALTVACNNFFWENS

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FIGURE 376

TCAGACAAGCACTGGACGTGGCGGCCATTTTGTGTTTGGACACCGAGCAGGAGCTGGCGGCCGCTGCAGACGAAAG
GCAGGAAAGGGCAGGCCGGGTGAGCAGACGGATCGGCCGACTAGACAGCCAACCAGCAACAACGAAGTGCAGCTCG
CATACTACCGCTTACGCATCTAACCAACCGCCCATCTAGCTAACCCGAGCCCCCTCCACCGTCAACTCAGGTTCCG
CCGGTCCCCGGCCCGCCTGCCGGAGCCGTGGTGGCAGCCCCGGGAGGAGCACTGGCGTCTGTTTCCCTTCGATTCT
CGGGATTCTGAAGATGGCTGCACAGTCAGCGCCGAAAGTTGTGCTAAAAAGCACCACCAAGATGTCTCTAAATGAG
CGCTTTACTAATATGCTGAAGAACAAACAGCCGACGCCAGTGAATATTTCGGGCTTCGATGCAGCAACAACAGCAG
CTAGCCAGTGCCAGAAACAGAAGACTGGCCCCAGCAGATGGAGAATAGACCCTCTGTCCAGGCAGCATTAAAACTT
AAGCAGAGCTTAAAGCAGCGCCTGGGTAAGAGTAACATCCAGGCACGGTTAGGCCGACCCATAGGGGCCCTGGCC
AGGGGAGCAATCGGAGGACGAGGCCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGGACTACGTGGGGGACGT
GCCACCAGAACCCTACTTAGGGGCGGGATGTCACCTCCGAGGTCAAACCTGCTCCGAGGTGGACGAGCCGTAGCT
CCCCGAATGGGCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTGGGAGAGGGGGCCTAGGGCGTGGAGCT
ATGGGTCGTGGCGGAATCGGTGGTAGAGGTTCGGGTATGATAGGTTCGGGAAGAGGGGGCTTTGGAGGCCGAGGC
CGAGGCCGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCTGTATTGACCAAGGAGCAGCTGGACAACCAATTGGAT
GCATATATGTCGAAAACAAAAGGACACCTGGATGCTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACC
AATGATTGAAGCCTGCCCATCCTCCCATGAGAGACTCTTGTTAGTCAACACATCTGTAAATAACCTTGAGATAAC
AGATGAGAAGAAATCTGATTGATGCTGGATGGACCTATCACAATAGGCTGTGGACTTACTTGCCACCAGCTTGTG
CATTTAGTGTGTTCCCTTTTACTTTTTGATACTGTGTTGTATGAAACCCTTTTGTCTTTGATTTGGTTTTTTTGT
TTTGTTTTTTTAGGGGGGAGGGGGGGTTTCCCTCCTTTGCCAGACTTCTCTTTGAACACAAATGCATTAGCCT
TGTGGCTAGAACACCCTCTTCCTACCTCTGTCTCCCTCACTTGTCATATGCTCTGACATGCTAACATTTCTTTT
GTTTCATCCCTGTTGCCCCACAGAAACATCCCAGAAAAACCGGTCAGTGTTCTTCCCTCCCTGATCCTTAGGTTT
CTGAAATAGGGTTCTGTTACATCCTCTTCGATAGCCTGTTTAAATGTTTAGAAGGTCTGGAGCTCAAAAATGCG
TTCTTCC

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FIGURE 377

AGGGGTGACAGAGGCCGTGGTTCGTGGTGGGCGCTTTGGTTCCAGAGGAGGCCAGGAGGAGGGTTCAGGCCCTTT
GTACCACATATCCCATTGACTTCTATTTGTTGTTTACTTCTGGTTTAGTGTGAAATGGCCCTTTCCCCGGGTCAA
GCCAGCACCTGATGAAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAGGACCTGGCTCCCAATTCTGCTGA
ACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAATCTGATTGTGGCTCCAGGGACATT
TGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTATAAAAAGGGGACAATGACTACAGGACACAATGTGGC
TGACCTGGTGGTGATACTCAAGATTCTGCCAACGTTGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGGAAAG
CCTAAGAGCACAGGATCCTTCTGAAGTTTTTAACCATGCTGACCAACGAAACTGGCTTTGAAATCAGTTCTTCTGA
TGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAACCTGGATCCAGAACTCCATTTGGATAT
CAAAGTATTGCAGAGTGCCTTAGCAGCCATCCGACATGCCCGCTGGTTCGAGGAAAATGCTTCTCAGTCCACAGT
TAAAGTTCTCATCAGACTACTGAAGGACTTGAGGATTGTTTTCTGGCTTTGAGCCCCTCACACCCTGGATCCT
TGACCTACTAGGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATACAGGCG
CTGCTTGCGAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTTCAGTGGGTATCACTGACCCCTGTGAGAGTGGCAA
CTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTATACAGCTCAGACTCTCGTCCGAAT
CCTCTCACATGGTGGCTTTAGGAAGATCCTTGCCAGGAGGGTGATGCCAGCTATCTTGCTTCTGAAATATCTAC
CTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCAGAGAAGAAGGAAGGAGAGGAAGA
AGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGAAACTCAGGAGTGACATTCCCTTCA
CTCCTTTTCTACCCAAGGGGGAAGACTGGAGCCTAAGCTGCCTGCTACTGGGCTTTACATGGTGACAGACATTT
CCGTGGGATAGGGAAGATAGCAGGAAGAAAAGTAAACTCCATAGAAGTGTCAATCCACTGGGTTTTGATATTGGC
TTAGCTGCCAGTCTCCCATTTGTGACCTATGCCATCCATCTATAATGGAGGATACCAACATTTCTTCCTAATATT
CTATAATCTCCAACCTCTGAAAACCCCTCTCTCAACTAATACTTTGCTGTTGAAATGTTGTGAAATGTTAAGTGT
CTGGAAATTTTTTTTTCTAAGAAAACTATTAAAGTACTT

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FIGURE 378

MRGDRGRGRGGRFGSRGGPGGGFRPFVPHIPFDLYLCEMAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASIL
SLVTKINNVIDNLIIVAPGTFEVQIEEVRQVGSYKKGTMTTGHNVADLVVILKILPTLEAVAALGNKVVESLRAQD
PSEVLTMLTNETGFEISSSDATVKILITTVPPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLIR
LLKDLRIRFPGFEPFLTPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHT
VMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVIVTPSEKAYEKPPEKKEGEEEEENTE
EPPQGEESMETQE

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FIGURE 379

CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCGTGTGGAGTGGTGGGGGCCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTCGGAAGGGAGGAT
CAGGGATGTTTTGCGAGCGGCTGGAACCAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGCTGC
TGCCCTGCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGCAGTTGCGCTGGCTTCCGGCGG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCGGAAGGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAAGTGGCCAGCAGCGCGCCGCGCACAC
CCTTCTCATTACGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGCGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGCTAGGCTGGGACTGGGGACCCGACGGCGGCGACAGCGGCGAGGGGAGCGCTGGAGAAGGCGAGC
GGGCAGCGCCGGGAGCCGGAGATGCAGCGGCCGGAAGCGGCGCGGAGTTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCCGCCGCCCTCTGTCACTGGAGCAACTGTGGCGCTGCTCCTCCCCGCTGGCCAGAGTTTCTGT
GGCTCTGGTTCGGGCTGGCCAAGGCCGGCTGCGCACTGCCTTTGTGCCACCGCCCTGCGCCGGGGCCCCCTGC
TGCACTGCCTCCGCAGCTGCGGCGCGCGCGCTGGTGTGGCGCCAGAGTTTCTGGAGTCCCTGGAGCCGGACC
TGCCCGCCCTGAGAGCCATGGGGCTCCACCTGTGGGCTGCAGGCCAGGAACCCACCCTGCTGGAAATTAGCGATT
TGCTGGCTGAAGTGTCCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCAGAGCATAACAGACA
CGTGCTGTACATCTTCACTCTGGCACCACGGGCTCCCCAAGGCTGCTCGGATCAGTCATCTGAAGATCCTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCCACCAGGAAGATGTGAATCTACCTCGCCCTCCCACTCTACCACA
TGTCGGTTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGGTGTGAAATCCAAGTTCTCGG
CTGGTCAGTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCGAGCAAGGCAGAACGTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCAG
ATACCTGGGAGCGTTTTTGTGCGGCGCTTCGGGCCCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TGGCCACCATCAACTACACAGGACAGCGGGGCGCTGTGGGGCGTGCTTCCTGGCTTTACAAGCATATCTTCCCCT
TCTCCTTGATTGCTATGATGTCAACACAGGAGAGCCAATTGCGGACCCCCAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGTAAGCCAGCAGTCCCCATTCTGGGCTATGCTGGCGGGCCAGAGC
TGGCCCAGGGGAAGTTGCTAAAGGATGTCTTCGGGCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGTTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTTCAGGTGGAAGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTTCTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCCACGTGTCTGAGAACTTGCCACCTTATGCCCGGCCCGATTCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTTCGGATGGCAAATGAGGGCTTCGACCCAGCACCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCCCTCACAACCTGCCCGGTACAGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAGAAGTTCCACACCTGAGGCACCTGAGAGAGGAACCTCTGTGGGTGGGGGCGGTTGCAGGTGTACTGG
GCTGTGAGGGATCTTTTCTATACCAGAACTGCGGTCACTATTTTGTAAATAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAAAAAAAAAAAAAAAAA

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FIGURE 380

MGVCQRTAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLPLLLLLPLLLLKLHLWPQLRW
LPADLAFVAVRALCCKRALRARALAAAAADPEGPEGGCSLAWRLAELAQQRAAHTFLIHGSRFSYSEAERESNR
ARAFRLRALGWDWGPDPGGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGP
EFLWLWFGGLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGPVPGYLSSPQSITDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFQYIGELCRYLVNQPPSKAERGHKVRLAVGSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGQRGAVGRASWLYKHIFPFSLIRYDVTGEPIRDPOGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGPPELAQKKLLKDVFRPGDVFFNTGDLVLCDDQGFLRFHDRTGDTFRWKGE
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSENLPYARPRFLRLQESL
ATTETFKQQKVRMANEGFDPSTLSDPLYVLDQAVGAYLPLTTARYSALLAGNLRI

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FIGURE 381

GGCACGAGGGGGCTTCAGGACAATTCGTGATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGG
TGGCGGGGGCCACAGGCCGCGACCTTTTCGCCGAAGGGCTGCTGGAGTTCCTGCGACCCGCTGTGCAGCAGCTCG
ACTCTCACGTACACGCCGTCAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAACTGT
GCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCCGGCGAC
GCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTGCCAAGG
AAACAGCCCGCAGGAGAGCAATGCTGGATTTCGGGAATTTACCCCCCTGGCTCCCCAGGCAAATAACAGATGAGCC
TATGGACTCAGTAGCACAACTACTGTTCCCCAGCTGCCTTGTTTCAACAGACATGCAAAGATCCTAGGAGACAGT
CCCCATAGACCTTCAGACATTAAAAAGGGAGCCGTACAGTTTGTTTGAAGCACTTCGTCTTACCCATTTATGTAG
GGGCCCCAGGAAACCTACACACAGCCAGAATGAGGTTCCCAAAGGACTTACATTAATTATGGCTCTTGCTTCCTT
TCACAAATGAGCTGAGGCCTCTACTTTTTTTTTTTAAGCTGCATACTTGAGGCTTACCTTCTTCAGGACTAGTT
AACCAGAGGGGCTTCCTTTGTATGTTACATGCCTGGTTACATGGGCCTGGACAGCATGTCCTCTACCTGTGACTT
CTCATTTTTCTGTTTACACTGGGGATTTGGAGGGGGCAGGCAAAGTCAAAGTGAATGACCTCTGTCCACCCACTT
TTTTATTGCACTGGCTTGAATACAGTAGCAGTGTGATAGAATCATTTTATTCAATAAATACTTAAATGAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 382

MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLD SHVHAVRESQVELREQIDNLATELCRINEDQKVA
LDLDPYVKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLD SG IYPPGSPGK

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FIGURE 383

CTATGATAAGCTAATTATTTATGTTTGCATAATATTTATGTTTGCATGTTAGTGACATATATTTTAAAAATGTGAT
ACACTCCTGTAATTTATGAGAGTATGTTTATTGCTGTGAGCTTTGAAGGTGCTCTAATCCTTCCTCATATTTGGC
CTTAGAATGCACCTCGGATCCCCCAAGGTTTAGGCTTTCTTCATTTGTCTTTGAAACTATATCTTCTGTCTCTTG
TCATATCTGCTTATTGCGTGTTTTTTCATACCTTCCACCTCTCTAAAAGCCGTTACCTGAGCCCTCGTTATCACTT
TTGGTTGAATGTGCTGCACTTAGCTGCATTTCTAAGTTTCTGATTCTTGCAAGTTTGTGGAAACAGAGGAGTCTT
TAACCCACATCAGCCTTGATCTAAGTGTACCACCTTTACTTAAAAGTTTCGTGGGATCTGGAGCTCCTGGTCTAGCA
AGCCATGAAAATGCCAATAAATGTTTGTAAATAAGCTTTTATTTAAACATCCATTTTGTTCGACCTTGAAGCTTT
ACTAATATGCTGAAGAACAACAGCCGACGCCAGTGAATATTGGGGCTTCGATGCAGCAACAACAGCAGCTAGCC
AGTGCCAGAAACAGAAGACTGGCCCGAGCAGATGGAGAATAGACCCTCTGTCCAGGCAGCATTAAAACCTTAAGCAG
AGCTTAAAGCAGCGCCTGGGTAAAGAGTAACATCCAGGCACGGTTAGGCCGACCCATAGGGGGCCCTGGCCAGGGGA
GCAATCGGAGGACGAGGCCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGGACTACGTGGGGGACGTGCCACC
AGAACCCTACTTAGGGGCGGGATGTCACCTCCGAGGTCAAACCTGCTCCGAGGTGGACGAGCCGTAGCTCCCCGA
ATGGGCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTGGGAGAGGGGGCCTAGGGCGTGGAGCTATGGGT
CGTGGCGGAATCGGTGGTAGAGGTCGGGGTATGATAGGTCGGGGAAGAGGGGGCTTTGGAGGCCGAGGCCGAGGC
CGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCTGTATTGACCAAGGAGCAGCTGGACAACCAATTGGATGCATAT
ATGTCGAAAACAAAAGGACACCTGGATGCTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACCAATGAT
TGAAGCCTGCCCATCCTCCCATGAGAGACTCTTGTTAGTCAACACATCTGTAAATAACCTTGAGATAACAGATGA
GAAGAAATCTGATTGATGCTGGATGGACCTATCACAATAGGCTGTGGACTTACTTGCCACCAGCTTGTGCATTTA
GTGTGTTTCTTTTACTTTTGTACTGTGTTGTATGAAACCCTTTTGTCTTTGATTGTTTGTGTTTGTGTT
TTTTTAGGGGGGAGGGGGGTTTCCCTCCTTTGCCAGACTTCTCTTTGAACACAAATGCATTAGCCTTGTGGC
TAGAACACCCTCTTCTACCTCTGTCTCCCTCACTTGTCTATGCTCTGACATGCTAACATTTCTTTTGTTCAT
CCCTGTTGCCCCACAGAAACATCCCAGAAAAACCGGTCAGTGTTCTTCTCCTGATCCTTAGGTTTCTGAAA
TAGGGTTCTGTTACATCCTCTTCGATAGCCTGTTTAAAATGTTTAGAAGGTCTGGAGCTCAAAAATGCGTTCTTC

C

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FIGURE 384

CCACAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCCTG
CCAAGAGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATGAAGGAACCTCTGCACAAGGAGCTGCCCAGCTTTGT
GGGGGAGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGA
CTTCCAGGAGTATGCTGTTTTCTGGCACTCATCACTGTCATGTGCAATGACTTCTTCCAGGGCTGCCCAGACCG
ACCCTGAAGCAGAACTCTTGACTTCCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTGTA
TTCAATAAACTTTTTTTGTCTGTTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 385

MMCSSLEQALAVLVTTTFHKYSCQEGDKFKLSKGEMKELLHKELPSFVGEKVDEEGLKKLMGSLDENSQQVDFQE
YAVFLALITVMCNDFQGCPRP

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FIGURE 386

GCGCCCAGACTTGCTGCCGGGCTGGACGGTCCGCACGGTGCTGGGCAGCAGCGAAAACGCGCTGGGCGTGTGCTC
CGACACCGCAGCGCCCCTGGCCGCGGTGGACCTCAAGTGGGAGCACAACCCCGCTGTGTTCTTGGGCCCCGGCTG
CGTGACGCCGCCCGCCAGTGGGGCGCTTACCCGCGCACTGGCGGGTCCCGCTGCTGACCGCCGGCGCCCCGGC
GCTGGGCTTCGGTGTCAAGGACGAGTATGCGCTGACCACCCGCGCGGGGCCAGCTACGCCAAGCTGGGGGACTT
CGTGGCGGCGCTGCACCGACGGCTGGGCTGGGAGCGCCAAGCGCTCATGCTCTACGCCTACCGCCGGGTGACGA
AGAGCACTGCTTCTTCTCGTGGAGGGGCTGTTTCATGCGGGTCCGCGACCGCCTCAATATTACGGTGGACCACCT
GGAGTTCGCCGAGGACGACCTCAGCCACTACACCAGGCTGCTGCGGACCATGCCGCGCAAAGGCCGAGTTATCTA
CATCTGCAGCTCCCCGATGCTTTCAGAAACCTCATGCTCCTGGCCCTGGAAGCTGGCTTGTGTGGGGAGGACTA
CGTTTTCTTCCACCTGGATATCTTTGGGCAAAGCCTGCAAGGTGGACAGGGCCCTGCTCCCCGAGGCCCTGGGA
GAGAGGGGATGGGCAGGATGTGAGTGCCTGCCAGGCCTTTCAGGCTGCCAAAATCATTACATATAAAGACCCAGA
TAATCCCGAGTACTTGGAATTCCTGAAGCAGTTAAAACACCTGGCCTATGAGCAGTTCAACTTCACCATGGAGGA
TGGCCTGGTGAACACCATCCAGCATCCTTCCACGACGGGCTCCTGCTCTATATCCAGGCAGTGACGGAGACTCT
GGCAGATGGGGGAACGTGTTACTGATGGGGAGAATCACTCAGCGGATGTGGAACCGAAGCTTTCAAGGTGTGAC
AGGATACCTGAAAATTGATAGCAGTGGCGATCGGGAAACAGACTTCTCCCTCTGGGATATGGATCCCGAGAATGG
TGCCTTCAGGGTTGTAAGTGAACATAATGGGACTTCCCAAGAGCTGGTGGCTGTGTGCGGGCGCAAACCTGAACCTG
GCCCCTGGGGTACCCTCCTCCTGACATCCCCAAATGTGGCTTTGACAACGAAGACCCAGCATGCAACCAAGATCA
CCTTTCCACCTGGAGGTGCTGGCTTTGGTGGGCAGCCTCTCCTTGTCTGGCATTCTGATTGTCTCCTTCTTCAT
ATACAGGAAGATGCAGCTGGAGAAGGAACCTGGCCTCGGAGCTGTGGCGGGTGCCTGGGAGGACGTTGAGCCCAG
TAGCCTTGAGAGGCACCTGCGGAGTGCAGGCAGCCGGCTGACCCTGAGCGGGAGAGGCTCCAATTACGGCTCCCT
GCTAACCCAGAGGGCCAGTTCCAAGTCTTTGCCAAGACAGCATATTATAAGGGCAACCTCGTGGCTGTGAAACG
TGTGAACCGTAAACGCATTGAGCTGACACGAAAAGTCTGTGTTGAACTGAAGCATATGCGGGATGTGCAGAATGA
ACACCTGACCAGGTTTGTGGGAGCCTGCACCGACCCCCCAATATCTGCATCCTCACAGAGTACTGTCCCCGTGG
GAGCCTGCAGGACATTCTGGAGAATGAGAGCATCACCCTGGACTGGATGTTCCGGTACTCACTACCAATGACAT
CGTCAAGGGCATGCTGTTTCTACACAATGGGGCTATCTGTTCCCATGGGAACCTCAAGTCATCCAACCTGCGTGGT
AGATGGGCGCTTTGTGCTCAAGATCACCGACTATGGGCTGGAGAGCTTCAGGGACCTGGACCCAGAGCAAGGACA
CACCGTTTATGCCAAAAGCTGTGGACGGCCCTGAGCTCCTGCGAATGGCTTCACCCCTGTGCGGGGCTCCCA
GGCTGGTGACGTATACAGCTTTGGGATCATCCTTCAGGAGATTGCCCTGAGGAGTGGGGTCTTCCACGTGGAAGG
TTTGACCTGAGCCCCAAAGAGATCATCGAGCGGGTGACTCGGGGTGAGCAGCCCCCTTCCGGCCCTCCCTGGC
CCTGCAGAGTCACCTGGAGGAGTTGGGGCTGCTCATGCAGCGGTGCTGGGCTGAGGACCCACAGGAGAGGCCACC
ATTCCAGCAGATCCGCCTGACGTTGCGCAAATTTAACAGGGAGAACAGCAGCAACATCCTGGACAACCTGCTGTC
CCGCATGGAGCAGTACGCGAACAATCTGGAGGAACTGGTGGAGGAGCGGACCCAGGCATACCTGGAGGAGAAGCG
CAAGGCTGAGGCCCTGCTCTACCAGATCCTGCCTCACTCAGTGGCTGAGCAGCTGAAGCGTGGGGAGACGGTGCA
GGCCGAAGCCTTTGACAGTGTACCATCTACTTCAGTGACATTGTGGGTTTCACAGCGCTGTGCGCGGAGAGCAC
ACCCATGCAGGTGGTGACCCTGCTCAATGACCTGTACACTTGCTTTGATGCTGTATAGACAACCTTTGATGTGTA
CAAGGTGGAGACAATTGGCGATGCCTACATGGTGGTGTGAGGGCTCCCTGTGCGGAACGGGCGGCTACACGCCTG
CGAGGTAGCCCGCATGGCCCTGGCACTGCTGGATGCTGTGCGCTCCTTCCGAATCCGCCACCGGCCCCAGGAGCA
GCTGCGCTTGCGCATTTGGCATCCACACAGGACCTGTGTGTGCTGGAGTGGTGGGACTGAAGATGCCCCGTTACTG
TCTCTTTGGGGATACAGTCAACACAGCCTCAAGAATGGAGTCTAATGGGGAAGCCCTGAAGATCCAATTGTCTTC
TGAGACCAAGGCTGTCTGAGGAGTTTGGTGGTTTCGAGCTGGAGCTTCGAGGGGATGTAGAAATGAAGGGCAA
AGGCAAGGTTTCGACCTACTGGCTCCTTGGGGAGAGGGGAGTAGCACCAGGCTGACCTGCCTCCTCTCCTAT
CCCTCCACACCTCCCTACCCTGTGCCAGAAGCAACAGAGGTGCCAGGCCTCAGCCTCACCCACAGCAGCCCCATC
GCCAAAGGATGGAAGTAATTTGAATAGCTCAGGTGTGCTGACCCAGTGAAGACACCAGATAGGACCTCTGAGAG
GGGACTGGCATGGGGGATCTCAGAGCTTACAGGCTGAGCCAAGCCCACGGCCATGCACAGGGACACTCACACAG
GCACACGCACCTGCTCTCCACCTGGACTCAGGCCGGGCTGGGCTGTGGATTCTGATCCCCCTCCCCCTCCCCATGC
TCTCCTCCCTCAGCCTTGCTACCCTGTGACTTACTGGGAGGAGAAAAGAGTCACCTGAAGGGGAACATGAAAAGAG
ACTAGGTGAAGAGAGGGCAGGGGAGCCACATCTGGGGCTGGCCCAACATACCTGCTCCCCGACCCCTCCACC
CAGCAGTAGACACAGTGCACAGGGGAGAAGAGGGGTGGCGCAGAAGGGTTGGGGGCTGTATGCCTTGCTTCTAC
CATGAGCAGAGACAATTAATCTTTATTCCAGTG

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FIGURE 387

MPGPRRPAGSRLRLLLLLLLPPLLLLLLRGSHAGNLTVAVVLPLANTSYPWSWARVGPAVELALAQVKARPDLLPG
WTVRTVLGSSSENALGVCSDTAAPLAAVDLKWEHNPVFLGPGCVYAAAPVGRFTAHWRVPLLTAGAPALGFGVKD
EYALTTRAGPSYAKLGDFVAALHRRLGWERQALMLYAYRPGDEEHCFLLVEGLFMRVRDRLNITVDHLEFAEDDL
SHYTRLLRTMPRKGRVIYICSSPDAFRTLMLLLEAGLCGEDYVFFHLDIFGQSLQGGQGPAPRRPWERGDDQDV
SARQAFQAAKIIITYKDPDNPEYLEFLKQLKHLAYEQNFMTMEDGLVNTIPASFHDGLLLYIQA VTETLAHG GTVT
DGENITQRMWNRSFQGVGTGYLKIDSSGDRETD FSLWMDPENGA FRVVLNNGTSQELVAVSGRKLNWPLGYPPP
DIPKCGFDNEDPACNQDHLSTLEVLALVGSLSLLGILIVSFFIYRKMQLKELASELWRVRWEDVEPSSLERHLR
SAGSRLTSLGRGSNYGSLLTTEGQFQVFAKTAYYKGNLVAVKRVNRKRIELTRKVL FELKHM RDVQNEHLTRFVG
ACTDPPNICILTEYCPRGSLQDILENESITLDWMFRYSLTNDIVKGMLFLHNGAICSHGNLKSNCVVDGRFVLK
ITDYGLESFRDLDP EQGHTVYAKKLWTAPELLRMASPPVRGSQAGDVYSFGIILQEIALRSGVFHVEGLDLSPKE
IIERVTRGEQPPFRPSLALQSHLEELGLLMQRCWAEDPQERPPFQQIRLTLRKFNRENSNILDNLLSRMEQYAN
NLEELVEERTQAYLEEKRAEALLYQILPHSVAEQKRGETVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVTL
LNDLYTCFDAVIDNFDVYKVETIGDAYMVVSGLPVRNRLHACEVARMALALLDAVRSFRIRHRPQEQLRLRIGI
HTGPVCAGVVGLKMPLYCLFGDTVNTASRMESNGEALKIHLSETKAVLEEFGGFELELRGDVEMKGKGKVRTYW
LLGERGSSTRG

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FIGURE 388

CTGGGTGGCGGTTATGGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAACCTGCTGAGC
CCCCTTGTCCTGGAGGTGGACCCCAACATCCAGGCCGTGTGCACCCAGGAGAAGGAGCCGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCCGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGACGGCTCGGAGCAACATGGACAAGTTCGAGAGCTACATCAACAACCTTAGGCAGCAG
CTGGAGATTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTC
AAGAACAAGTATGAGGATGAGATCAATAAGCGTACAGAGATGGAGAATGAATTTGTGCTCACCAAGAAGGATGTG
GATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTTACTGAAGAGATCAGCTTCCTCAGG
CAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCCCAGATCTCAGACACATCATTGCTGAGGTCAAGGCACAGT
ACGAGGACCGCCAGCCGCAGCCAGGCTGAGGCTGAGAGCATGTACCAGATCAAGAATGAGGAGCTGCAAGAGCCT
GGCTGGGAAGCACGGGGATGA

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FIGURE 389

TTGCCCGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTGTTCCGGTGGAAATCAGCCGTAGCCATGAGTTTCTGC
CGGGGCTAGCCCTAGAGTACGGAGCAGGCGGACTTTTCGGTTCCCCGCCCCGCCAGGTGGCGGGGGCTACTAGGC
CTCCGGGCATCCCCGGTCTCAAGTAGGCCTCATCTGCCGGCAAGGGCGCCCCGAAACGCGGGAGGCGCCATGTCGC
TGTTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCGAGCCGGAGGAAGAGGAGGCGGTGG
CTCCTACATCTGGGCCCCGCTTTAGGGGGCTTGTTTCGCTTCTCTCCCTGCGCCCAAGGGTCCGGCCTTGCTGCCTC
CGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCCGCTGTTGCTTCCCCCACCCACCGGAGACCCAGGCTTC
AGCCTCCTCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCCCCACCTCCAGGCGTGAGCCCGGCTGAAGCGGCGG
GAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCGAGGCCCTGGCCTCAATCTGCCCCCTCCAATTGGCG
GTGCCGGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAGGAAAGAGCCCGTGAAGATCGCGGCGCCGGAGTTGC
ATAAGGGAGATTTCAGATTCTGAGGAAGATGAACCCACAAAGAAGAAAACCTATCCTTCAGGGATCCAGTGAGGGGA
CTGGTTTGTCTGCCTTGCTTCCCCAACCTAAAAACCTGACTGTGAAAGAGACTAACAGGTTGCTCCTGCCCATG
CCTTCTCCCGCAAACCCCTCGGATGGCTCCCCTGATACTAAGCCCTCCAGACTGGCTTCTAAGACCAAGACTTCCT
CTCTTGCCCTGTTGTGGGCACCAACACCACCTCCGTCGCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTG
CCCTGCAGGTGACAAAGCAGATCACGCAGGAAGAAGACGACAGTGATGAGGAAGTAGCCCCGAAAACCTTTTTCT
CCCTCCCTGAAAAGGCTGAGCCACCTGGAGTTGAGCCATACCCTTACCCCATCCCCACTGTCCCTGAAGAGCTGC
CTCCAGGCACGGAACCAGAGCCGGCTTTCAGGACGATGCAGCCAATGCCCCCTTGAATTCAAGATGGCAGCAG
GTTCAAGTGGGGCCCCCTTGATGCCTAAGCCTGGGGACGACTACAGCTACAATCAGTTTCCACATATGGCGATG
CCAATGCCGCTGGTGCTTATTATCAGGATTATTACAGTGGTGGCTACTATCCTGCACAGGACCCGGCCCTGGTCC
CCACCCAGGAAATTGCCCCAGATGCCTCCTTCATCGATGACGAAGCATTTAAGCGGCTGCAGGGCAAGAGGAACC
GAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGATGACCAGCTCAGTGGGGCCAGCAATGGATGACTA
AGTCATTGACAGAAGAGAAAACCATGAAGTCATTACGCAAAAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGC
GGAAACACCAGATCACATATCTTATTCATCAGGCCAAGGAGCGGGAGCTGGAAGTGAAGAACACCTGGTCAGAGA
ACAAGCTCAGCCGCGTCAGACCCAAGCCAAATATGGATTCTAGGGCTCTGGAAGTGAATTGCTCCCAGGATCTCC
TGCCAGCCCAGCTGGCCTGGCCCCCAGCTTACCTCTGGGACCCAGCTGCTCTAAGCCCAGGATCTCTTTCCCC
AAGGACCCAGCCCTCGCCTCTGCGAGAATGAACATATTTGATAGATTTTTCTTAACAAGTTAGAAAATTCAGCTC
CTTTCTGTCTGGAGCTAGCAAAGACTTGTGTGATGCCTCCGAAGGGGCTCTGAGTTCTGGGGTGGGAGTTTTGC
TCTCTGTCAGGTGTGATAAAATGTTGAACCTCCCCACCACCACTTTTTTTTTTTTTTAAACCAGGGATGTCTGTT
GAAATAAAACATTCAGTCTGACAAAAA

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FIGURE 390

MSLVAYASSDESEPDEAEPEPEEEEEAVAPTSGPALGGLFASLPAPKGPALLPPPPQMLAPAFPPPLLLPPPTGDP
RLQPPPLPFGLGGFPPPPGVSPAEEAGVGEGLGLGLPSRGPGLNLPPPIGGAGPPLGLPKPKKRKEPVKIAAP
ELHKGDSDEEDEPTKKKTIQGSSEGTGLSALLPQPKNLTVKETNRLLPHAFSRKPSDGSPTKPSRLASKTK
TSSLAPVVGTTTTTPSPSAIKAAAKSAALQVTKQITQEEDDSDEEVAPENFFSLPEKAEPPGVEPYPIPTVPE
ELPPGTEPEPAFQDDAANAPLEFKMAAGSSGAPWMPKPGDDYSYNQFSTYGDANAAGAYYQDYYSGGYYPAQDPA
LVPTQEIAPDASFIDDEAFKRLQGKRNRGREEINFVEIKGDDQLSGAQQWMTKSLTEEKTMKSFSSKKKGQPTGQ
QRRKHQITYLIHQAKERELELKNTWSENKLSRRQTQAKYGF

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FIGURE 391

GAGGAGGAGTGGGGACCGGGCGGGGGTGGAGGAAGAGGCCTCGCGCAGAGGAGGGAGCAATTGAATTTCAAACA
CAAACAACCTGCACGAGCGCGCACCCACCGCGCCGGAGCCTTGCCCCGATCCGCGCCCCGCCCCGTCCGTGCGGCGC
GCGGGCGGAGACGCCGTGGCCGCGCCGGAGCTCGGGCCGGGGGCCACCATCGAGGCGGGGGCCGCGCGAGGGCCG
GAGCGGAGCGGCGCCGCCACCGCCGCACGCGCAAACTTGGGCTCGCGCTTCCCGGCCCGGCGCGGAGCCCGGGGC
GCCCCGAGCCCCGCCATGTGCGGATCCAACCGGCAGAAGGAGTACAAATGCGGGGACCTGGTGTTCGCCAAGATG
AAGGGCTACCCACACTGGCCGGCCCCGATTGACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAACAAATAC
CAAGTCTTTTTTTTTCGGGACCCACGAGACGGCATTCTTGGGCCCCAAAGACCTCTTCCCTTACGAGGAATCCAAG
GAGAAGTTTGGCAAGCCCCAACAAGAGGAAAGGGTTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCTTACTGTC
AAGGCTTCCGGCTATCAGTCCTCCAGAAAAAGAGCTGTGTGAAGAGCCTGAACCAGAGCCCCGAAGCTGCAGAG
GGTGACGGTGATAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCC
AAGGAGAAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCCTAAACGTCCCAAG
GAGGCAGAAAACCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGGAGGTTGAGAGGCCCCCTTCTATGGAGGTG
GAAAAGAATAGCACCCCCCTCTGAGCCCGGCTCTGGCCGGGGGCTTCCCAAGAGGAAGAAGAGGAGGAGGATGAA
GAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCCAGGCATCAGAGATCATGAGAGCCTGTAGCCACCAATGTTT
CAAGAGGAGCCCCACCTGTCTCTGCTGTCTGGGTGCTACTGGGGAAACTGGCCATGGCCTGCAAACTGGG
AACCCCTTTCCACCCCAACCTGCTCTCCTCTTCTACTCACTTTTCCCACTCCAAGCCCAGCCCATGGAGATTGA
CCTGGATGGGGCAGGCCACCTGGCTCTCACCTCTAGGTCCCCATACTCCTATGATCTGAGTCAGAGCCATGTCTT
CTCCCTGGAATGAGTTGAGGCCACTGTGTTCTTCCGCTTGGGAGGGGCAATCCTCAAATGCGGGGTGGGGGCAG
CACAGGAGGGCGGCCTCCTTCTGAGCTCCTGTCCCCTGCTACACCTATTATCCCAGCTGCCTAGATTCAGGGAAA
GTGGGACAGCTTGAGGGGAGGGGCTCCTTTCCATAAATCCTTGATGATTGACAACACCCATTTTTCTTTTGCC
GACCCCAAGAGTTTTGGGAGTTGTAGTTAATCATCAAGAGAATTTGGGGCTTCCAAGTTGTTTCGGGCCAAGGACC
TGAGACCTGAAGGGTTGACTTTACCCATTTGGGTGGGAGTGTTGAGCATCTGTCCCCCTTTAGATCTCTGAAGCC
ACAAATAGGATGCTTGGGAAGACTCCTAGCTGTCCTTTTTCTCTCCACACAGTGCTCAAGGCCAGCTTATAGTC
ATATATATCACCCAGACATAAAGGAAAAAGACACATTTTTTAGGAAATGTTTTTAATAAAAAGAAAAATTACAAAAA
AAATTTTAAAGACCCCTAACCCCTTTGTGTGCTCTCCATTCTGCTCCTTCCCCATCGTTGCCCCCATTTCTGAGGT
GCACTGGGAGGCTCCCCCTTCTATTTGGGGCTTGATGACTTTCTTTTTGTAGCTGGGGCTTTGATGTTCTTCCAG
TGTCATTTCTCATCCACATACCTGACCTGGCCCCCTCAGTGTTGTCACCAGATCTGATTTGTAACCCACTGAGA
GGACAGAGAGAAATAAGTGCCCTCTCCACCCCTCTTCTACTGGTCTCTCTATGCCTCTCTACAGTCTCGTCTCT
TTTACCCTGGCCCCCTCTCCCTTGGGCTCTGATGAAAAATTGCTGACTGTAGCTTTGGAAGTTTAGCTCTGAGAAC
CGTAGATGATTTTCAATTCTAGGAAAAATAAACCCGTTGATTACT

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FIGURE 392

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTACT
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCCAACTTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACTTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTGCGCACCACAGAGATTAACCTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAGTGGCCACAGGTAGAACC GCGGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCTCCTTCTAGGATAGCGCTCCCCCTTACCCCAGTCACTTC
TGGGGGTCACTGGGATGCCTCTTGCAAGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCTCCCCAAGTCAGCAGTCCCTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAAATGCTTTAAAAAAA

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FIGURE 393

MPNFSGNWKIIRSENFEECLKVLGVNVMLRKIAVAAAASKPAVEIKQEGDTFYIKTSTTVRTTEINFKVGEEFEEQ
TVDGRPCKSLVKWESENKMVCEQKLLKGEGPKTSWTRELTNDGELILMTADDVVCTRVYVRE

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FIGURE 394

GCAGTCTCCGCCGAGTCTCAGCTGCAGCTGCAGGACTGAGCCGTGCACCCGGAGGAGACCCCGGAGGAGGCGA
CAAACCTTCGAGTGCCGCGACCCAACCCAGCCCTGGGTAGCCTGCAGC**ATGG**CCAGCTGTTCTGCCCCCTGCT
GGCAGCCCTGGTCTTGCCCGAGGCTCCTGCAGCTTTAGCAGATGTTCTGGAAGGAGACAGCTCAGAGGACCGCGC
TTTTTCGCGTGCGCATCGCGGGCGACGCGCCACTGCAGGGCGTGTCTCGGCGGGCGCCCTCACCATCCCTTGCCACGT
CCACTACCTGCGGCCACCGCCGAGCCGCGGGCTGTGCTGGGCTCTCCGCGGGTCAAGTGAGCTTTCTGTCCCCG
GGGCCGGGAGGAGAGGTGCTGGTGGCGCGGGGAGTGCAGCTCAAGGTGAACGAGGCCTACCGGTTCCGCGTGGC
ACTGCTGCGTACCCAGCGTCGCTCACCAGCTCTCCCTGGCGCTGAGCGAGCTGCGCCCCAACGACTCGGGTAT
CTATCGCTGTGAGGTCCAGCACGGCATCGATGACAGCAGCGACGCTGTGGAGGTCAAGGTCAAAGGGGTGCTCTT
TCTTACCGAGAGGGCTCTGCCCGCTATGCTTTCTCTTTTCTGGGGCCAGGAGGCCTGTGCCCGCATTGGAGC
CCACATCGCCACCCCGGAGCAGCTCTATGCCGCCTACCTTGGGGGCTATGAGCAATGTGATGCTGGCTGGCTGTC
GGATCAGACCGTGAGGTATCCCATCCAGACCCACGAGAGGCCTGTTACGGAGACATGGATGGCTTCCCCGGGGT
CCGGAACATATGGTGTGGTGGACCCGGATGACCTCTATGATGTGTACTGTTATGCTGAAGACCTAAATGGAGAACT
GTTCTTGGGTGACCCCTCCAGAGAAGCTGACATTGGAGGAAGCACGGGCGTACTGCCAGGAGCGGGGTGCAGAGAT
TGCCACCACGGGCCAACTGTATGCAGCCTGGGATGGTGGCCTGGACCACTGCAGCCAGGGTGGCTAGCTGATGG
CAGTGTGCGCTACCCCATCGTCAACCCAGCCAGCGCTGTGGTGGGGGCTTGCCTGGTGTCAAGACTCTCTTCTCT
CTTCCCCAACCAGACTGGCTTCCCCAATAAGCACAGCCGCTTCAACGTCTACTGCTTCCGAGACTCGGCCCAGCC
TTCTGCCATCCCTGAGGCCTCCAACCCAGCCTCCAACCCAGCCTCTGATGGACTAGAGGCTATCGTCAAGTGAC
AGAGACCCCTGGAGGAAGTGCAGCTGCCTCAGGAAGCCACAGAGAGTGAATCCCGTGGGGCCATCTACTCCATCCC
CATCATGGAGGACGGAGGAGGTGGAAGCTCCACTCCAGAAGACCCAGCAGAGGCCCCCTAGGACGCTCCTAGAATT
TGAAACACAATCCATGGTACCGCCCACGGGGTTCTCAGAAGAGGAAGGTAAGGCATTGGAGGAAGAAGAGAAATA
TGAAGATGAAGAAGAGAAAGAGGAGGAAGAAGAAGAGGAGGAGGTGGAGGATGAGGCTCTGTGGGCATGGCCAG
CGAGCTCAGCAGCCCGGGCCCTGAGGCCTCTCTCCCCACTGAGCCAGCAGCCAGGAGAAGTCACTCTCCAGGC
GCCAGCAAGGGCAGTCTTGCAGCCTGGTGCATCACCACCTTCTGATGGAGAGTCAGAAGCTTCCAGGCCTCCAAG
GGTCCATGGACCACCTACTGAGACTCTGCCACTCCCAGGGAGAGGAACCTAGCATCCCCATCACCTTCCACTCT
GGTTGAGGCAAGAGAGGTGGGGGAGGCAACTGGTGGTCTGAGCTATCTGGGGTCCCTCGAGGAGAGAGCGAGGA
GACAGGAAGCTCCGAGGGTGCCCCCTTCCCTGCTTCCAGCCACACGGGCCCCCTGAGGGTACCAGGGAGCTGGAGGC
CCCCCTCTGAAGATAATTCTGGAAGAACTGCCCCAGCAGGGACCTCAGTGCAGGCCAGCCAGTGTCTGCCACTGA
CAGCGCCAGCCGAGGTGGAGTGGCCGTGGTCCCCGCATCAGGTGACTGTGTCCCCAGCCCCCTGCCACAATGGTGG
GACATGCTTGGAGGAGGAGGAAGGGGTCCGCTGCCTATGTCTGCCTGGCTATGGGGGGACCTGTGCGATGTTGG
CCTCCGCTTCTGCAACCCCGGCTGGGACGCCTTCCAGGGCGCCTGCTACAAGCACTTTTCCACACGAAGGAGCTG
GGAGGAGGCAGAGACCCAGTGCCGGATGTACGGCGCGCATCTGGCCAGCATCAGCACACCCGAGGAACAGGACTT
CATCAACAACCGGTACCGGGAGTACCAGTGGATCGGACTCAACGACAGGACCATCGAAGGCGACTTCTTGTGGTC
GGATGGCGTCCCCCTGCTCTATGAGAAGTGAACCCCTGGGCAGCCTGACAGCTACTTCTGTCTGGAGAGAACTG
CGTGGTCATGGTGTGGCATGATCAGGGACAATGGAGTGACGTGCCCTGCAACTACCACCTGTCTTACACCTGCAA
GATGGGGCTGGTGTCTGTGGGCCGCCACCGGAGCTGCCCTGGCTCAAGTGTTCGGCCGCCACGGCTGCGCTA
TGAGGTGGACACTGTGCTTCGCTACCGGTGCCGGGAAGGACTGGCCAGCGCAATCTGCCGCTGATCCGATGCCA
AGAGAACGGTCGTTGGGAGGCCCCCAGATCTCCTGTGTGCCAGAAAGACCTGCCGAGCTCTGCACCCAGAGGA
GGACCCAGAAGGACGTGAGGGGAGGCTACTGGGACGCTGGAAGGCGCTGTTGATCCCCCTTCCAGCCCCATGCC
AGGTCCCT**TAG**GGGGCAAGGCCTTGAACACTGCCGGCCACAGCACTGCCCTGTACCCCAAATTTTCCCTCACACCC
TGCGCTCCCGCCACCACAGGAAGTGACAACATGACGAGGGGTGGTGTGGAGTCCAGGTGACAGTTCCTGAAGGG
GCTTCTGGGAAATACCTAGGAGGCTCCAGCCCAGCCCAGGCCCTCTCCCCCTACCTGGGCACCAGATCTTCCAT
CAGGGCCGGAGTAAATCCCTAAGTGCCCTCAACTGCCCTCTCCCTGGCAGCCATCTTGTCCCCCTCTATTCTCTAG
GGAGCACTGTGCCCACTCTTCTGGGTTTTTCAAAGGAATGGGCTTGAGGATGGAGTGTCTGTAAATCAACAG
GAAATAAACTGTGTATGAGCCAGGCCAAAAA

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FIGURE 395

MAQLFLPLLAALVLAQAPAALADVLEGDSSSEDRAFRVRIAGDAPLQGVLGALTIPCHVHYLRPPPSRRAVLGSP
RVKWTFLSRGREAEVLVARGVRVKVNEAYRFRVALPAYPASLTDVSLALSELRPNDSGIYRCEVQHGIDDSSDAV
EVKVKGVVFLYREGSARYAFSFSGAQEACARIGAHIAITPEQLYAAYLGGYEQCDAGWLSAQTVRYPIQTPREACY
GDMDGFPGVRNYGVVDPDDLVDVYCYAEDLNGELFLGDPPEKLTLEEARAYCQERGAETATTGQLYAAWDGGLDH
CSPGWLADGSVRYPIVTPSQRCGGGLPGVKTLFLFPNQTGFPNKHSRNFVYCFRDSAQPSAIPASNPASNPASD
GLEAIVTVTETLEELQLPQEATESESRGAIYSIPIMEDGGGGSSTPEDPAEAPRTLLEFETQSMVPPTGFSEEEG
KALEEEEEKYEDEEEKEEEEEEEVEDEALWAWPSELSSPGPEASLPTEPAAQEKSLSQAPARAVLQPGASPLPDG
ESEASRPPRVHGPPTETLPTPRERNLASPSSTLVEAREVGEATGGPELSGVPRGESEETGSSEGAPSLLPATRA
PEGTRELEAPSEDNSGRTAPAGTSVQAQPVLPDTSASRGGVAVVPASGDCVPSCHNGGTCLEEEEGVRCCLCLPG
YGGDLCDVGLRFCNPGWDAFQGACYKHFSTRRSWEEAETQCRMYGAHLASISTPEEQDFINNRYREYQWIGLNDR
TIEGDFLWSDGVPLLYENWNPGQPD SYFLSGENCVMVWHDQGQWSDVPCNYHLSYTCKMGLVSCGPPPELPLAQ
VFGRPRLRYEVDTVLRYRCREGLAQRNLP LIRCQENGRWEAPQISCVPRRPARALHPEEDPEGRQGRLLGRWKAL
LIPSSPMPGP

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FIGURE 396

CTCCTCACAGAAGCCTGGAGCTGGGCATCCAAGAAGAAGCAGCCTCATTGTGTTTTCTGGTGTCATCGTAGGTGGC
CACCTATGGCTTTTGGGAATGTAAAAAGGGCAGCTCTCTGGCATGTTCTGACTGAGGATCTCATAACATTTAAC
TTGAGGAACCTTCCTCCTTTTCCAGCTTTGGGAGTCAAGCTTCTCACCTGGGGCGGGTGGGTTCGACCACCCTC
CCACCCTCCTTCCTCCGTGTGGACGATAGAGCCACATCCAGCACCACGGACAGCTCCCGGGCGCCTTCATCTCCT
CGTCCTCCAGGCAGCACAAAGCCATTGTGGAATCTCCACCAGGTGTACAGAACGGTGCCTCTGCGTCCTGCCACTC
AGGACCTCTCAAGTCCCCGATGTGATGGCTCCTCAGCATGATCAGGAGAAATTCCATGATCTTGCTTATTCCTGT
CTTGGGAAGTCCTTCTCCATGTCTAACCAAGATCTATATGGCTATAGCACCAGCTCTTTGGCTCTTGGCTTGGCA
TGGCTAAGTTGGGAGACCAAAAAGAAGAATGTACTTCATCTGGTTGGGCTGGATTCCCTCTTGAATAAGCCTTCCCA
GTTGACTGAAAGATGAGGCTAGGCTCTAGCAAGTTGAAGTCAAACCAGCTCCTTCAAGAAGCTTTGAGCAGAATG
AAGTGGGGAGGACCCAGCTTCCAGCCCAGGAAGCCCACTGTACCTGGAGCCATCTGGGATAAGACTTTGACCCAT
GACTCCCATATCCACAGCCTGTCCATCCTAGCCCATCCCAGTTTATCCTGTATCATTGAGCTGGGATTCCCACA
TCCTCTGAGTTGGAAGTCCCATCTCAAGTCTTCAATAAAGACTCTTGAATATTG

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FIGURE 397

MFLTEDLITFNLRNFLLFQLWESSFSPGAGGFCTTLPPSFLRVDDRATSSTTDSSRAPSSPRPPGSTSHCGISTR
CTERCLCVLPLRTSQVPDVMAPOHDQEKFHDLAYSCLGKSFMSNQDLYGYSTSSLALGLAWLSWETKKKNVLHL
VGLDSL

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FIGURE 398

TTGCGTAGGGGGCGGGACTAAGGCTGTCAATTGGTCTGTTTTTGTGCCGATCAATGAGATGGGTGCGGTGATTGG
CGACTACCTTGAGAGTAGCGGGTTGAGGTGTAAGCCCTGAGGAGGCAGCGTTTTCTGGGCTTCTGTCTGGTTCTC
TCTCTCCAGAAGGTTCTGCCGGTTCCCCAGCTCTGGGTACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATC
GTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAACATCAATGCTG
CCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGG
GAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCA
TGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATTCTTGCAGGGGAAA
TGCTGTCTGTAGCTGAGCACTTCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTACCGCAAGGCAT
TGGATGATATGATCAGCACCCCTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATGATGCTGAACA
TCATCAACAGCTCTATTACTACCAAGCCATCAGTCGGTGGTCATCTTTGGCTTGCAACATTGCCCTGGATGCTG
TCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAGGATAAC
CTGGAGGCATCATTGAAGACTCCTGTGTCTTGGCTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATGC
GGCGCTATATCAAGAACCCTCGCATTGTGTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAGACTG
ACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTG
AGGACATTATCCAAGTGAAGCCCGATGTGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACCTTA
TGCGGGCCAATATCACAGCCATCCGAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTGTGGGGCCC
GGATAGTCAGCCGACCAGAGGAAGTGAAGAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAAATCAAGAAAA
TTGGAGATGAATACTTTACTTTTCACTCACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCTCCGGGGGGGCTA
GCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTGCAATGTTCTCTGGACC
CTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCCATGCCTTGACAGAAAAATCCAAGGCCATGA
CTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCCAGGGCCCTAGAGGTCATTCTCGTACCCTGATCCAGAACT
GTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGGCCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTG
TAAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGA
CTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTTAGGCCACAAAAAGAAAG
GCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAGTGCTAGGCAAGGCTACTTCAATGC
ACAGAACCAGCAGAGTCTCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGTCTTTGTTTCAGAAAGGA
TCAGGTGGGGGGCAGCCCCAGTCCCTTTCTGTCCCAGCTCAGTTTTCCAAAAGACACTGACATGTAATTCCTC
TCTATTGTAAGGTTTCCATTTAGTTTGCTTCCGATGATTAAATCTAAGTCATTTG

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FIGURE 399

MGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREIQVQHPA
AKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPTVVISAYRKALDDMISTLKKISIPVDISDSM
MLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIEDSCVLRGVMINKDVTH
PRMRRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEYIQQLCEDIIQLKPDVVITEKGISDLAQ
HYLMRANITAIRRVKTDNNRIARACGARIVSRPEELREDDVGTGAGLLEIKKIGDEYFTFITDCKDPKACTILL
RGASKEILSEVERNLDAMQVCRNVLLDPQLVPGGGASEMAVAHALTEKSKAMTGVEQWPYRAVAQALEVIPRTL
IQNCGASTIRLLTSLRAKHTQENCETWGVNGETGTLVDMKELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGH
KKKGDDQSRQGGAPDAGQE

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FIGURE 400

GAATTGCGGCCGTATGCGCGGCTCTGTGGAGTGCACCTGGGGTTGGGGGCACTGTGCCCCAGCCCCCTGCTCCT
TTGGACTCTACTTCTGTTTGCAGCCCCATTTGGCCTGCTGGGGGAGAAGACCCGCCAGGTGTCTCTGGAGGTCAT
CCCTAACTGGCTGGGCCCCCTGCAGAACCTGCTTCATATACGGGCAGTGGGCACCAATTCCACACTGCACTATGT
GTGGAGCAGCCTGGGGCCTCTGGCAGTGGTAATGGTGGCCACCAACACCCCCACAGCACCTGAGCGTCAACTG
GAGCCTCCTGCTATCCCCTGAGCCCGATGGGGGCTGATGGTGTCTCCCTAAGGACAGCATTTCAGTTTTCTTCTGC
CCTTGTTTTTACCAGGCTGCTTGAGTTTGACAGCACCAACGTGTCCGATACGGCAGCAAAGCCTTTGGGAAGACC
ATATCCTCCATACTCCTTGGCCGATTTCTCTTGGAACAACATCACTGATTTCATTGGATCCTGCCACCCTGAGTGC
CACATTTCAAGGCCACCCCATGAACGACCCCTACCAGGACTTTTGCCAATGGCAGCCTGGCCTTCAGGGTCCAGGC
CTTTTCCAGGTCCAGCCGACCAGCCCAACCCCTCGCCTCCTGCACACAGCAGACACCTGTGAGCTAGAGGTGGC
CCTGATTGGAGCCTCTCCCCGGGGAAACCGTTCCCTGTTTGGGCTGGAGGTAGCCACATTGGGCCAGGGCCCTGA
CTGCCCCCTCAATGCAGGAGCAGCACTCCATCGACGATGAATATGCACCGGCCGTCTTCCAGTTGGACCAGCTACT
GTGGGGCTCCCTCCCATCAGGCTTTGCACAGTGGCGACCACTGGCTTACTCCCAGAAGCCGGGGGGCCGAGAATC
AGCCCTGCCCTGCCAAGCTTCCCCCTCTTCATCCTGCCTTAGCATACTCTCTTCCCCAGTCACCCATTTGTCCGAGC
CTTCTTTGGGTCCCAGAATAACTTCTGTGCCTTCAATCTGACGTTCCGGGCTTCCACAGGCCCTGGCTATTGGGA
CCAACACTACCTCAGCTGGTCGATGCTCCTGGGTGTGGGCTTCCCTCCAGTGGACGGCTTGTCCCCACTAGTCCT
GGGCATCATGGCAGTGGCCCTGGGTGCCCCAGGGCTCATGCTGCTAGGGGGCGGCTTGGTTCTGCTGCTGCACCA
CAAGAAGTACTCAGAGTACCAGTCCATAAATTAAGGCCCGCTCTCTGGAGGGAAGGACATTACTGAACCTGTCTT
GCTGTGCCTCGAACTCTGGAGGTTGGAGCATCAAGTTCCAGCCGGCCCCCTTCACTCCCCCATCTTGCTTTTCTG
TGGAACCTCAGAGGCCAGCCTCGACTTCCTGGAGACCCCCAGGTGGGGCTTCCTTCATACTTGTGGGGGACTT
TGGAGGCGGGCAGGGGACAGGGCTATTGATAAGGTCCCCTTGGTGTGCTTCTTGCACTCTCCACACATTTCCCT
TGGATGGGACTTGCAGGCCTAAATGAGAGGCATTCTGACTGGTTGGCTGCCCTGGAAGGCAAGAAAATAGATTTA
TTTTTTTTC

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FIGURE 401

MRGSVECTWGWGHCAPSPLLLWTLLLF AAPFGLLGEKTRQVSLEVIPNWLGPLQNLLHIRAVGTNSTLHYVWSSL
GPLAVVMVATNTPHSTLSVNWSLLLSPEPDGGLMVLPKDSIQFSSALVFTRLLEFDSTNVSDTAAKPLGRPYPPY
SLADFSWNNITDSLDPATLSATFQGHMNDPTRTFANGSLAFRVQAFSRSSRPAQPPRLHTADTCQLEVALIGA
SPRGNRSLFGLEVATLGQGPDCPSMQEQHSIDDEYAPAVFQLDQLLWGSLSGFAQWRPVAYSQKPGGRESALPC
QASPLHPALAYSLPQSPIVRAFFGSQNNFCAFNLTFGASTGPGYWDQHLYLSWSMLLGVGFPFVDGLSPLVLGIMA
VALGAPGLMLLGGGLVLLLHHKKYSEYQSIN

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FIGURE 402

[illegible]

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FIGURE 403

MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIEGAEDGLDSTVSEAA
LPWGTGPQPSAPFPDPPGWRDIEPEPPESEPLTKLEELPEDDANLLPEKAARAFVPIDLQCIERQPQEDLIVRCE
AGEGECRTFMPPRVTHPDPTERKWAEAVVRPPGCSCGGCGSCGDREWLRAVASVGAALILFPCLLYGAYAFLPFD
VPRLPMTSSRLIYTLRCGVFATFPFIVLGILVYGLSLLCF SALRPFGEPRREVEIHRRYVAQSVQLFIFYFFNLAV
LSTYLPQDTLKLLPLLTGLFAVSRLIYWLTFAVGRSFRGFGYGLTFLPLL SMLMWNLYYMFVVEPERMLTATESR
LDYDPDHARSASDYRPRPWG

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FIGURE 404

ACTCAGTGTTTCGCGGGAGCCGCACCTACACCAGCCAACCCAGATCCCAGAGTCCGACAGCGCCCGGCCAGATCC
CCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCTTCGACC
CGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGCC**ATGG**AGACCCCGTCC
CAGCGGCGCGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCGCCACCCGCATCACCCGGCTGCAG
GAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGGAG
AACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC
TACGAGGCCGAGCTCGGGGATGCCCCGAAGACCCCTTGA**CT**CAGTAGCCAAGGAGCGCGCCCCGCCTGCAGCTGGAG
CTGAGCAAAGTGCGTGAGGAGTTTAAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCT
CAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGA**ACT**CCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAG
CGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG
AAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGA**ACT**GGAC
TTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGAGATTGAC
AATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGA**ACT**GCGGGCCCAGCATGAGGACCAG
GTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG
AACAGCAACCTGGTGGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCAG
CTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTGAG
CGGGACACCAGCCGGCGGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAG
CTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTG
GAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCCTCTCAC
TCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAA**ACT**TGGAGTCCACTGAGAGCCGCAGCAGCTTC
TCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGC
AACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT
TACCGGTTCCCAACAAAGTTCACCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCACC
CACAGCCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTC
ATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCCTCAGTGACTGTGGTTGAGGACGACGAGGAT
GAGGATGGAGATGACCTGCTCCATCACCA**CCAT**GTGAGTGGTAGCCCGCGCT**TCAG**GGCCGAGCCTGCACTGGGGCC
ACCCAGCCAGGCCTGGGGGCAGCCTCTCCCAGCCTCCCGTGCCAAAATCTTTTCATTAAAGAATGTTTGAA
CTTT

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FIGURE 405

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEVVSREVS
GIKAA YEAE LGDARKTLD SVAKERARLQELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALST
ALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNYSEELRETKRRHETR
LVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNNSNLVGAAHEELQQSRIRID
SLSAQLSQLQKQLAAKEAKLRDLED SLARERDTSRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHA
YRKLLGEEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKRKLESTESRSSFSQHARTSGRVAVEEVDEEGK
FVRLRNKSNE DQSMGNWQIKRQNGDDPLLTYRFPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCGNS
LRTALINSTGEEVAMRKLVR SVTVVEDDEDEDGDDLLHHHHVSGSRR

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FIGURE 406

GCGCAGACGCCCCAGCCCCCACCGCCCCCAAAGGGGCGAGCGACGCCAAGCTCTGCGCTCTCTACAAAGAGGCC
GAGCTGCGCCTGAAGGGCAGCAGCAACACCACGGAGTGTGTTCCCGTGCCACCTCCGAGCAGCTGGCCGAGATC
GTGGGCAGGCAAGGCTGCAAGATTAAGGCCTTGAGGGCCAAAGACCAACACCTACATCAAGACACCGGTGAGGGGC
GAGGAACCAGTGTTTCATGGTGACAGGGCGACGGGAGGACGTGCCCCACAGCCCGCGGGAAATCATCTCAGCAGCG
GAGCACTTCTCCATGATCCGTGCCCTCCCGCAACAAGTCAGGCGCCGCCCTTTGGTGTGGCTCCTGCTCTGCCCGGC
CAGGTGACCATCCGTGTGCGGGTGCCCTACC CGTGGTGGGGCTGGTGGTGGGCCCCAAGGGGCAACCATCAAG
CGCATCCAGCAGCAAACCAACACATACATTATCACACCAAGCCGTGACCGCGACCCCGTGTTCGAGATCACGGGT
GCCCCAGGCAACGTGGAGCGTGC CGCGCAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAG
TACAACAATGAAAACGACTTCTTGCGGGGAGCCCCGACGCAGCAATCGATAGCCGCTACTCCGACGCCCTGGCGG
GTGCACCAGCCCCGGCTGCAAGCCCCCTCTCCACCTTCCGGCAGAACAGCCTGGGCTGCATCGGCGAGTGC GGAGTG
GACTCTGGCTTTTGAGGCCCCACGCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGCGGGTACCCTCTTTCCGGGC
TATGGCGTGGGCAAGCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAAC
GCCACGCCCACTCCGTGCTCTTCTCCTCTGCCTCCTCCTCCTCCTCCTTCCGCCAAGGCCCCGCGTGGGCCC
CCGGGCGCACACCGCTCCCCTGCCACTTCCGCGGGACCCGAGCTGGCCGGACTCCCCGAGGCGCCCCCGGGAGAG
CCGCTCCAGGGCTTCTCTAACTTGGTGGGGGCGGCCTGCGGAGCCCCGCGCGGCGGGCGGGATTGCATGGTCTGC
TTTGAGAGCGAAGTGACTGCCGCCCTTG TGCCCTGCGGACACAACCTGTTCTGCATGGAGTGTGCAGTACGCATC
TGCGAGAGGACGGACCCAGAGTGTCCCGCTGCCACATCACAGCCACGCAAGCCATCCGAATATTCTCCTAAGCC
CCGTGCCCCATGCCCTCCGGGGCCCACTCCACTGGGGCCACCTGGACCTGTTTTCCACTAAAGCCTTTTGGAAG
CGGTGATTTGAGGGGCAAGGTGCTTAGAGATACTCGCTCGCTGGGGAAAGGGGGGAGGGAGGCAGTGGTGGCTGGA
GGGTGCGCCACTTTCAGAGCCTCTGGTCAACCTGTCTTGAAAGATTGGGAGGGGGCCAGACTGAAAAATTTTACT
AGAGTTACAACTCTGATACCTCAACACACCCTTAAATCTGGAAGCAGCTAAGAGAAACTTTTGTTTTGCCAGAGG
TGGCCACTAAGGCATTCTGACGCCCTTGCCACCTCCCCCGCTGTGTGTCACTCCACCCCTTCTTCCGAGGAGG
GGGTGGGTAAAAGGGAGAGGGAGAATTACCACCTGTATCTAGAGGTGCTCTTTGCAATCCCTAAGCCCTCTGGTC
CTGACCTCCGACCTCCCAGCTCTGTCTTGTTCTTGTTCTTTGTTCTTTCTTCCCTTCCCCCTGCCCTGCCCTTAC
CAGCCCAGCTTTGGGGACACCATCCTTCTGGGGAGAAGTAGGGGGAGGAATATTTGGATGGTCCCTCCATTCCCTC
TTCAGGCATCTGGAGGCCCTCTCCCCCACTCCTCCAAAGAAACATCTCAAATTATTGATGGAATGTATCCCATT
CTCAGTGAAAAATGTGAGGAGGGGACTAATACTGGGGTAAAGGGTCAAACCCCACTTTCATCACTATGGGCATTA
TATTTAGGGAGTAGTTCTTGGGCTGGATTTTCTGGTTGTGGAAGTGGGGGCGCCAGAGTAGTGTGTCTGCTATTT
AAAGGAGCAGGAAAGGGCGTGAGGCAGGAGGAGAGACTGGTGGAGGGAAGAGCTGCTCCTCCCATGCAGTGCCCG
ACTCCCTGCACCCCTCTCAACCTGACCTGAACCTTTATTGAATCCTTATTAGCTTGAATCCTTATTAGCTTGAAT
CCTCCATGCAAATCATGGAGTCTGTGTCCACCTGATGTGGTTGAGGAGAAGCCAGGTCTTCAAAGAGGGGTGAG
CCTGGGGCAAAGCAGGACTGGGGGGAGGTGGGCAGCAGGGCCTATTCTGAGAATCACATATTGTTACAGGCCTTG
CACCCCTTTGCTGCTTCCCTCCTGCTCATTG GGGCTGCCACCAGCTCTCCACCCCTCTGGTTCCGCTGGCCGG
GCCAAGAGAGGATGGAGGGATGGGAGTCCAGGAGATCCTTGTAATAGTGGGGTGGGACTGTTCTGAGTGATCA
CCCAGCACTTAAAGCTCCAGAGTCCATTCTTCTTGATGGAGCAGGTGGAGGTGCAGAGGGGATTTCTCTCTC
TCCTTCTCTCTGTGAGAATTAACACCTCTCCACAGCCTTCCCCCTCCAGAACACCAGCCAGGGAGGGGTGGGGAA
GGAGGTACAGCCAAGAAAACCTGCCCTGTGACGACTTCCCTCCTTCCCGCCTATGTGAGCCATCCTGAGATGTCT
GTACAATAGAAACCAAACCAATGGGCACCCTCGGTTGCCGGGGGGCAGGTGGGGAGGGGGGTGGGAAGAAGGGA
TGTCTGTCTGTCTGCTCCCCCTCCCCCTCTCCACTCTTTACCCACAAAGGCAGAAGACTGTTACACTAGGGGGCTCA
GCAAAATTC AATCCACCCCTTACCAATTGAGCCAAACCTAGAAACAAACACAAACACGAATAGTGAGAGACAAA
TAGAGGAGAGAAAGAGAGCATGAGAGGGAGCGAGACAGGCGACCAACACAGAGGAGAGAAAACAAAAATAGC

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FIGURE 407

LRLKGSSNTTECVFVPTSEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPVMVTGRREDVATARREIISAAE
HFSMIRASRNKSGAAGVAPALPGQVTIRVRVPYRVVGLVVGPKGATIKRIQQQTNTYIITPSRDRDPVFEITGA
PGNVERAREEIIETHIAVRTGKILEYNNENDFLAGSPDAAIDSRYSDAWRVHQPCKPLSTFRQNSLGCIGECGVD
SGFEAPRLGEQGGDFGYGGYLFPGYGVGKQDVYYGVAETSPPLWAGQENATPTSVLFSSASSSSSSSAKARAGPP
GAHRSPATSAGPELAGLPRRPPG

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FIGURE 408

GGAGGAGCCGGGCGGGCTGGCGGGCGGCCGGGTGGCGGGCGGCGGCATGGCGGAGCCGAGCGGGGCCGAGACGAGG
CCCCCATTTCGGGTACCGTCAAGACCCCAAGGACAAGGAGGAAATTGTGATCTGCGATCGAGCCTCGGTCAAG
GAGTTCAAAGAGGAAATCTCCCGGAGGTTTAAGGCTCAGCAGGATCAGCTGGTCTGATCTTCGAGGCAAGATC
CTCAAGGATGGGGACACACTGAACCAGCACGGAATCAAGGACGGGCTCACTGTCCATCTGGTCATCAAGACCCCT
CAGAAGGCTCAAGATCCAGCTGCTGCCACTGCTTCTTCCCCCTCCACACCTGACCCTGCCTCAGCACCCCTCCACC
ACGCCTGCTTCACCCGCCACCCCTGCCCAGCCCTCCACCTCTGGCAGTGCCTCTTCAGATGCTGGCAGTGGAAAGC
CGGAGGAGCAGTGGTGGGGGGCCCTCTCCGGGGGGTGGGGAGGGATCCCCAGTGCTACTGCGTCCATACTCTCT
GGCTTTGGGGGCATCTGGGGCTGGGCAGCCTAGGCCTGGGCTCTGCCAACTTCATGGAGCTGCAGCAGCAGATG
CAGCGGCAGCTGATGTCCAATCCTGAGATGCTGTCACAGATCATGGAGAACCCCTGGTCCAGGATATGATGTCT
AACCCTGATCTGATGCGTCACATGATTATGGCCAACCCCCAGATGCAGCAGTTGATGGAGCGGAACCCCTGAGATC
AGCCACATGCTCAATAACCCCTGAACCTCATGAGGCAGACAATGGAGCTTGCTCGGAATCCAGCCATGATGCAAGAG
ATGATGCGGAACAGGACCGGGCCCTGAGCAACCTTGAGAGCATCCCTGGAGGGTATAATGCCCTCCGCCGCATG
TACACGGACATCCAGGAGCCCATGTTCACTGCTGCCGGGAACAGTTTGGCAACAATCCCTTCTTCCCTGGCC
GGGAACCTCCGACAGCTCATCTCCAGCCTCTGCGGACTGAGAATCGAGAGCCCTCCCTAACCCCTGGAGCCCC
TCGCCCCCACCTCCCAGGCCCCCGGGTCCGGTGGGGAGGGCACCGGAGGATCGGGGACCAGCCAGGTGCACCCG
ACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAGGGATGTTCAATAGCCAGAAATGCAAGCC
CTCCTCCAGCAGATCTCTGAGAACCCCCAGCTGATGCAGAATGTGATCTCAGCACCCCTACATGCGCAGCATGATG
CAGACGCTTGCCAGAACCCCGACTTTGCTGCTCAGATGATGGTGAATGTGCCGCTCTTCGCGGGGAACCCCCAA
CTGCAGGAGCAGCTCCGCCTGCAGCTCCAGTCTTCTGTCAGCAGATGCAGAACCAGAGTCACTCTCCATCCTT
ACCAATCCCCGAGCCATGCAGGCATTGCTGCAGATCCAGCAGGGACTACAGACCTTGAGACCCAGGCCCCCTGGG
CTGGTACCCAGCCTTGCTCCTTTGGGATATCCCGGACCCAGCACCCCTCAGCAGGCAGCAACGCAGGGTCTACG
CCCGAGGCCCCCACTTCTCACCAGCCACGCCAGCCACATCTTCTCCAACAGGGGCTTCCAGCGCCAGCAGCAA
CTCATGCAGCAGATGATCCAGCTTTTGGCTGGAAGTGGAACTCACAGGTGCAGACGCCAGAAGTGAGATTTTCA
CAGCAGCTGGAGCAGCTCAACTCCATGGGCTTCATCAATCGTGAGGCTAACCTGCAGGCCCTGATTGCCACAGGA
GGGGACATCAACGCAGCTATCGAGAGACTGCTGGGCTCCAGCTCTCCTAATCCCTCGGCCCATGCCTCCTGCCT
CTCCCCCTCCCTCGATGTCAGCATTGCGTTCTTCTGTCAATCCTTACCCTCTGCAGCTTGCTCTCCCTTCCGTCTT
CTCCCTCATCCTTTCCAAACAGCAGGGTGACTTTAGAGGCATGGGCTCCAACCCCTTAGCTCTGTCTGAGAATTA
TGTTTTTACTGCTACGTCTCTAACAGACTCTTCTCTCCTGGTCTCCTTGAGCAGTGCTACTTAAACAGTTTTTCA
AGTTTCATTGATTGACTCTACCTCCTTGCCCCACACCCTTTTGCAATCTTTAACTTTTCACTGGCTGTGCAGAG
TCGAGGGAGGAACCAGCTCTCTGGTTTACTGGAACATAGTCTTCCATCTATACCACTAGGGTTTTGTCTTATGTT
TACTTTTGGTAACTCTCTTCTTCTTTTCTCCCTACCCCCCAACCCCTAGCCCAACCAATGCTAGAATTTCTTG
CTCTGAAGGAGGAGCAGGTGAAACAGGTGGTAATTTCTTCTCGGCCCTATTCTGGTTTATTGACACTTTTT
GGTGGGAACCTGTTGGAAATTCCAGGGTAAGGAGGAAGATGCCTGTTCTCCCTGTCTGAAGAGGGAGATGAGACAG
CTCTCTGGACAGGAATTAACAAACGCTGGAGCAGCCAGAGGAAATTCGTGTGAAAGAGGAGGGAATGAGATTAT
TCGGAGGAAGGGAATGGGGGAGACAGCCTGAGTAAAAGGCTTGGAAGTTGGAATTAACAGTGGGGAGCAGAAGCA
CTCATAGCTCTTTTAGGCAGAAGAATCCAGGCCCGAGCTGGCAGAAGAGACTTAGAGATGCTAATGGAATTTAAA
CTGAAAAAAGGAGCCCAATGAAGCTAAGCGCCACGCCCCACAAGGGGTCAATTGGCTTTAGTTTCTCAAGCATA
TGTGCTTATATGCACACACACACATTTCCATGGACCCAGGTCTTGCTTGTGTCCCAGGCACCACTAGTTTGA
GCCCCCTCAAAGACATGAAGGGGTTGGGGTCTGTGTGAGTAGTGGGGAGGTGCATGTGTATCCACATGTGTG
CATACTCTTAAAGTTGGGTGGGAAGTGGATTCTTGTGGTTTCTGGTTTCAAGTGTCTCTCCACCACCAGAGA
CAAGTGGGTAAAAGGTCAGTCCATTGCAGGAATATATATCCGGGAGAGCTAGGTCCCTTGGGGCTCTGGATGCT
GGGTAAACCCAGAGGTAATGTGGGTACCCCTTCTGAAGCTGTGAGGGCTGTGACTAGCACCCCTTATCACCCCTCAC
TGCTTGTGGGAATAGTAGAGGGTTTTTTTCTCCAGAGCCCTGGCCTTTCAGTTCTTAACTATTTCCCTCCAG
GCCAGAAAGTTTTCTTTGAGGAAGGAGAGGAGGGGTGGCAATGATGCCTTTGATCTGGAATTGGACATTTCTCT
GTCAGAGCACAGAGGAGGCTCATATCACCTCTTCCCTCTCTTACTTGGCCCAGCTGCTTGGAGGACCGACCCCAT
GGCTGAGAAATATGACGGCAAGAGGAACAGAGTTTGTCTCAAGTGGGAAAGGGTCCCAAGCAGTCCAGAGAAGATG
TCTGTGTGGCTTTCCCTCCCTGCCTCCCCAGCTCCACACTGGCCTTTGTAAATAAATGGCGTGGTCTTTGTTG
TG

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FIGURE 409

GGCTCTCTTCCTGTCTTTGTGGCTCCGGAAAGGCGTTTGGGATGCCAACGATGAGGCTGCTGTCATTTGTGGTGT
TGGCTCTATTTGCTGTCACTCAAGCAGAGGAAGGAGCCAGGCTTTTGGCTTCCAAATCACTGCTGAACAGATACG
CCGTGGAGGGACGAGACCTGACCTTGCAGTACAACATCTACAATGTTGGCTCAAGTGCTGCATTAGACGTGGAAC
TATCTGATGATTCTTCCCTCCAGAAGACTTTGGCATTGTGTCTGGAATGCTCAATGTCAAATGGGACCGGATTG
CCCCTGCTAGCAATGTCTCCCACTGTGGTCCTGCGCCCTCTCAAGGCTGGTTATTTCAACTTCACCTCGGCAA
CAATTACTTACCTGGCCCAGGAGGATGGGCGGTTGTGATTGGCTCTACCAGTGCACCTGGACAGGGAGGAATCC
TGGCTCAGCGGGAGTTTGACAGGCGATTCTCCCCTCATTTTCTGGACTGGGCAGCCTTTGGGGTCATGACCCTTC
CCTCCATCGGCATCCCCCTGCTATTGTGGTACTCCAGCAAGAGGAAATATGACACTCCCAAAACGAAGAAGAACT
GATTGGGGCTTCCACAGCCCTCCTCTCCCAAGAAATCCAGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCAGAC
TCCAAAGGGTATCTTAAATGCAATCTCTTCTCTTAGCCCTTGGCCACTTTCTCCTGGATCCTGCCCTGCTCTC
AGCCATAGTGAAGGACCAGCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGTGAAGCCATAAACAGGAATG
CCTTTGGCAATAGCCTTGAGCCTAGAGGGCCCTCTGATGCCCCACTGAGGTGCTGTTGGTTTATTGCTGGCAACG
TGAATTCTCTCAGGGGTCTAGGAGGGGCATTTTGGAGACTGCCTGACACCACCCCTATCCCTGCCTCCCCCTCT
CAGAAGAGGGTGGAAGATGAAATGAAAGCTATGGGACTCTTGGAGGATACCCAGTGTCTATTCTGGGTTAGAGAA
GTGCTTACTAAGGGGTTTTCTAATAAAAACAAATGCCAATTGC

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FIGURE 410

MRLLSFVVLALFAVTQAEEGARLLASKSLLNRYAVEGRDLTLQYNIYNVGSSAALDVELSDDSFPPEDFGIVSGM
LNVKWDRIAPASNVSHTVVLRPLKAGYFNFTSATITYLAQEDGPFVIGSTSAPGQGGILAQREFDRRFSPHFLDW
AAFGVMTLP SIGIPLLLWYSSKRKYDTPKTKKN

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FIGURE 411A

GAGACCAACGCGTGCGGGCCGAACCCCTCCCCCGCCTTCCCCCAACAATACAGGACGCCGGGGTCCGCGCCGCG
TCCTCCCTGGTCCCCCGTCCGATTATGTCTCGGATCGAATCCCTCACGCGGGCGCGGATCGACCGGAGCAGAGA
GCTGGCGAGCAAGACCCGGGAAAAGGAGAAAATGAAGAAAGCCAAGGATGCCCCGTATACAAATGGGCACCTCTT
CACCACCATTTCAGTTTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATCACAGCCAAGGAAGCCCTCAT
CTGCCCCAACCTGCAATGTGACTATCCACAACCGCTGTAAAGACACCCTCGCCAACCTGTACCAAGGTCAAGCAGAA
GCAACAGAAAGCGGGCCCTGCTGAAGAACAACACCGCCTTGTCAGTCCGTTTCTCTTCGAAGTAAGACAACCATCCG
GGAGCGGCCAAGCTCGGCCATCTACCCCTCCGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTC
CTCCTTGCTCTTTAGCCAAGAGTGTCTTACCACCAACATTGCTGGACATTTCAATGATGAGTCTCCCTGGGGCT
GCGCCGGATCCTCTCACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCCTATCCGTGGAATCCCTCATTGA
CGAAGAGGTAATCTACAGTGAGCTGATGAGTGACTTTGAGATGGATGAGAAGGACTTTGCAGCTGACTCTTGAG
TCTTGCTGTGGACAGCAGCTTCTGCAGCAGCATAAAAAGGAGGTGATGAAGCAGCAAGATGTCATCTATGAGCT
AATCCAGACAGAGCTGCACCATGTGAGGACACTGAAGATCATGACCCGCCTCTCCGCACGGGGATGCTGGAAGA
GCTACACTTGGAGCCAGGAGTGGTCCAGGGCCTGTTCCCTGCGTGGACGAGCTCAGTGACATCCATACAGCTT
CCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACCTTTGTATCCATCGCTT
GGGTGATCTGCTCATCAGCCAGTTCTCAGGTCTAGTGCGGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAG
CCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCGAGACAAACGCTTCCAGCAATTCATCCGGAA
AGTGACCCGCCCCCGCTGCTCAAGCGGCACGGGGTACAGGAGTGATCCTGCTGGTGACTCAGCGCATACCAA
GTACCCGTTACTCATCAGCCGCATCCTGCAGCATTCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGC
ACTGGGGCTAGTGAAGGAGCTGCTGTCCAATGTGGACGAGGGTATTTATCAGCTGGAGAAAGGGGCCCGTCTGCA
GGAGATCTACAACCGCATGGACCCTCGGGCCCAAACCCAGTGCTGGCAAGGGGCCCTTTGGCCGAGAGGAACT
TCTGAGGCGCAAACCTCATCCACGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGT
GCTGCTGATGACAGATGTACTGGTGTCTTCCAGGAAAAGGACCAGAAAGTACATCTTTCCCTACCCTGGACAAGCC
TTCAGTGGTATCGCTGCAGAATCTAATCGTACGAGACATTGCCAACAGGAGAAAGGGATGTTTCTGATCAGCGC
AGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCAATCAGCA
GAGCGTGCGCACATGCCCATCCAGGGAGGACTTCCCCCTGATTGAGACAGAGGATGAGGCTTACCTGCGGCGAAT
TAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTGCGGCTGTTTGCTGAGAT
GACCCATTTCCAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCACCCCTGCCAGGGGCCTTTTCCGCTC
TGAGTCCCTTGAGTCCCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAGGTGGAGGGTCTGAAAGACCT
GCTGGTGGGGCCAGGAGTGGAACTGCTCTTGACACCCCGAGAGCCAGCCCTGCCCTTGGAAACCAGACAGCGGTGG
TAACACGAGTCTTGGGGTCACTGCCAATGGTGGAGCCAGAACCTTCAATGGCTCCATTGAACCTCTGCAGAGCTGA
CTCAGACTCTAGCCAGAGGGATCGAAATGGAAATCAGCTGAGATCACCGCAAGAGGAGGCGTTACAGCGATTGGT
CAATCTCTATGGACTTCTACATGGCCTACAGGCAGCTGTGGCCAGCAGGACACTCTGATGGAAGCCCGGTTCCC
TGAGGGCCCTGAGCGCGGGGAGAAGCTGTGCCGAGCCAACTCTCGGGATGGGGAGGCTGGCAGGGCTGGGGCTGC
CCCTGTGGCCCCCTGAAAAGCAGGCCACGGAACCTGGCATTACTGCAGCGGCAACATGCGCTGCTGCAGGAGGAGCT
ACGGCGCTGCCGGCGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAGAGTGA
GCAGGCCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCCCCTGGGCCAGACCGAGCC
ACTCCCAGCTGAGGCCCCCTGGGGCCGCAGACCTGTGGATCCTCGGCGGCGCAGCCTCCCCGCAGGCGATGCCCT
GTACTTGAGTTTCAACCCCCACAGCCAGCCGAGGCACTGACCGCCTGGATCTACCTGTCACTACTCGCTCTGT
CCATCGAAACTTTGAGGACCGAGAGAGGCAAGGAGTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGTGACCC
TGACACTGGCAGCGAGGAGGAAGGTAGCAGCCGTCTGTCTCCGCCCCACAGTCCACGAGACTTTACCAGAATGCA
GGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCTGTAGCCTCCGAGAGCTAAGGGGGCCCCCTCCCCCT
GCCCCGTGCCCACTGAAGAACATTACTGAGGGGGGCTAACCTTGGGGACTCCAATTTGCCAATGATGAGGGAACA
TTTGAAAGAACTGCAAATTTGCTCTTGCCAGCTCTTGGGATCCTTGGATACCTGGGGCCATTTAAGAAGCTAGGGG
AATTAGGCCACAACACCCCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTCATGCCTTCTTCCGCA
ACTTTAGGAAAATTTATTTATTTATTGTTTATTAGTTATGGGGGAGAGGGGAGATTTAAAGGACCAGGGACATG
GGAACCAAGCCATAGGGATCAGAGGGCCTTGTCTTGAACACTACTGGGGTATATTCAGGCTCATCCACGCAGCT
GCTGGGTTCTTGCCCTAACGGCCCTCCCCTGCAACATCCGTCTTGGAGGAGAGGCTGCAGCCACAGCACCCCTACT
GCCCTTTAAATAAAGGAGGGCTGTGGGCAGGGCCATGTCCCTTTCTCCTCTCCCTCAACCTCTTACTGCTGTTT

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FIGURE 411B

TCCCTTTCTCCGTCCTTCATGGAAGCCCTGGGAGATAACCTGGCTTCCTGGAGTTGATGGAATAAAGGTTGGGGT
GGCCATAATGGTTTGTTGGGGGTGAGGGAAAAAACCACAGGGACCAGAATGTTTTGTTGTTCTTTGTTTTCTT
TTTTGTACCAAAGTCAACTGCACGTGTTTTATATTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTAT
CTCCACATCTCTGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTTCATCTGCAGTAACGGGGGGACCT
ATACTGACCTCTTCCCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTGGAAAATCTCCAAGAGCCCTGACCTCA
TCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAATTTGGGGGATTTTTCAGTGGAACCTTGCCCCCA
AATGTCGACCAGCCCCCAAATGTCGAAGAATTTCTTCTTGCCAATTTGTTGTTTAAAAAAAAAATTCAGGGAA
AATTAAAAACCTGGAACCTCA

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FIGURE 412

ATGCAGCAGCACGTTCTGACCCAAATCCACCTTCTTGCCACCTGCAACCCCAACCTCAATCCGGAGGCC
ACTACCACCAGGATATTTCTTAAAGAGCTGGGAACCTTTGCTCAAAGCTCCATCGCCCTTCACCATCAGTACAAC
CCCAAGTTTCAGACCCCTGTTCCAACCCTGTAACCTTGATGGGAGCTATGCAGCTGATTGAAGACTTCAGCACACAT
GTCAGCATTGACTGCAGCCCTCATAAAACCTGTCAAGAAGACTGCGAATGAATTTCCCTGTTTGCCAAAGCAAGTG
GCTTGGATTCTGGCCACAAGCAAGGTTTTTCATGTATCCAGAGTTACTTCCAGTGTGTTCCCTGAAGGCAAAGAAT
CCCCAGGATAAGATCGTCTTCACCAAGGCTGAGGACAATTTGTTAGCTTTAGGACTGAAGCATTTCGAAGGAAC
GAGTTTCCTAATCCTCTAATCAGCAAGTACCTTCTAACCTGCAAACTGCCACCAACTGACAGTGAGAATCAAG
AACCTCAACATGAACAGAGCTCCTGACAACATCATTAAATTTTATAAGAAGACCAAACAGCTGCCAGTCCTAGGA
AAATGCTGTGAAGAGATCCAGCCACATCAGTGGAAGCCACCTATAGAGAGAGAAGAACACCGGCTCCCATTCTGG
TTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGCTGCGGCACATGGCTGATGGTGCTAGAGAGGTAGGAAATATG
ACTGGAACCACTGAGATCAACTCAGATCGAAGCCTAGAAAAAGACAATTTGGAGTTGGGGAGTGAATCTCGGTAC
CCACTGCTATTGCCTAAGGGTGTAGTCTTGAACCTGAAGCCAGTTGCCACCCGTTTCCCCAGGAAGGCTTGGAGA
CAGAAGCGTTCATCAGTCTGAAGCCCTCCTTATCCAACCCAGCCCTCTCTCCAGCCAGCTTCAACCCTGGG
AAAACACCAGCCCGATCAACTCATTGAGAAGCCCTCCGAGCAAAATGGTGCTCCGGATTCTCACCCAATACAG
CCAGCCACTGTTTTACAGACAGTTCCAGGTGTCCCTCCACTGGGGGTGAGTGGAGGTGAGAGTTTTGAGTCTCCT
GCAGCACTGCCTGCTGTGCCCCCTGAGGCCAGGACAAGCTTCCCTCTGTCTGAGTCCCAGACTTTGCTCTCTTCT
GCCCCGTGTGCCCAAGGTAATGCTGCCCTCCCTTGCCCCCTTCTAAGTTTCGAAAGCCATATGTGAGACGGAGACC
TCAAAGAGAAGAGGAGTCAAGGCCTCTCCCTGTATGAAACCTGCCCTGTTATCCACCACCCTGCATCTGTTATC
TTCACTGTTCCCTGCTACCACTGTGAAGATTGTGAGCCTTGGCGGTGGCTGTAACATGATCCAGCCTGTCAATGCG
GCTGTGGCCCAGAGTCCCCAGACTATTCCCATCACTACCCTCTTGGTTAACCCCTACTTCCTTCCCCTGTCCATTG
AACCAGTCCCTTGTGGCCTCCTCTGTCTCACCCCTAATTGTTTCTGGCAATTCTGTGAATCTTCCTATACCATCC
ACCCCTGAAGATAAGGCCACGTGAATGTGGACATTGCTTGTGCTGTGGCTGATGGGGAAAATGCCTTTTCAGGGC
CTAGAACCCAAATTAGAGCCCCAGGAAGTATCTCCTCTCTCTGCTACTGTTTTCCCGAAAGTGAACATAGCCCA
GGGCTCCACTAGCAGATGCAGAGTGCCAAGAAGGATTGTGAGAGAAATAGTGCCTGTCGCTGGACCGTTGTGAAA
ACAGAGGAGGGGAGGCAAGCTCTGGAGCCGCTCCCTCAGGGCATCCAGGAGTCTCTAAACAACCCTACCCCTGGG
GATTTAGAGGAAATTGTCAAGATGGAACCTGAAGAAGCTAGAGAGGAAATCAGTGGATCCCTGAGCGTGATATT
TGTGATGACATCAAAGTGAACATGCTGTGGAATTGGACACTGGTGCCCCAAGCGAGGAGTTGAGCAGTGCTGGA
GAAGTAACGAAACAGACAGTCTTACAGAAGGAAGAGGAGAGGAGTCAGCCAATAAAACCCCTTCATCTTCTCAA
GAGCCCCCTGATGAAGGAACCTCAGGGACAGATGTGAACAAAGGATCATCAAAGAATGCTTTGTCCTCAATGGAT
CCTGAAGTGAGGCTTAGTAGCCCCCAGGGAAGCCAGAAGATTCTCCAGTGTTGATGGTCAGTCAGTGGGGACT
CCAGTTGGGCCAGAACTGGAGGAGAGAAGAATGGGCCAGAAGAAGAGGAAGAAGAGGACTTTGATGACCTCACC
CAAGATGAGGAAGATGAAATGTCATCAGCTTCTGAGGAATCTGTGCTTTCTGTCCCAGAACTCCAGGTGAGAGCT
GGAGAATATTCTCAAGTATTTCTGTGAGCTCAGTAATATGTATCACTTATTGATATGCCACCTGCTTGCTTGCTGC
ACTATGGATAGTCCTAAAATCATTGTATTTGA

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FIGURE 413

MQQHVQLLTQIHLLATCNPNLNPEATTTRIFLKELGTFQAQSSIALHHQYNPKFQTLFQPCNLMGAMQLIEDFSTH
VSIDCSPHKTVKKTANEFPCLPKQVAWILATSKVFMYPPELLPVCSLKAKNPQDKIVFKAEDNLLALGLKHFEGT
EFPNPLISKYLLTCKTAHQLTVRIKNLNMNRAPDNIIFKYKKTQLPVLGKCCEEIQPHQWKPPIEREEHRLPFW
LKASLPSIQEELRHMA DGAREVGNMTGTTEINSDRSLEKDNLELGSESRYPLLLPKGVVLKLPVATRFPKAWR
QKRSSVLKPLLIQPSPSLQPSFNPGKTPARSTHSEAPP SKMVLRIHPHIQPATVLQTVPGVPPLGVSGGESFESP
AALPAVPPEARTSFPLSESQTLLSSAPVPKVMLPSLAPSKFRKPYVRRRPSKRRGVKASPCMKPAPVIHHPASVI
FTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPITTLLVNPTSFPCLNQSLVASSVSPLIVSGNSVNLPIPS
TPEDKAHVNVDIACAVADGENAFQGLEPKLEPQELSPLSATVFPKVEHSPGPPLADAECQEGLSENSACRWTVVK
TEEGRQALEPLPQGIQESLNNPTPGDLEEIVKMEPEEEAREEISGSPERD ICDDIKVEHAVELDTGAPSEELSSAG
EVTKQTVLQKEEERSQPTKTPSSSQEPPDEGTSGTDVNKGSSKNALSSMDPEVRLSSPPGKPEDSSSVDGQSVGT
PVGPETGGEKNGPEEEEEEDFDDLTQDEEDEMSSASEESVLSVPELQVRAGEYSQVFRGLSNMYHLLICHLLACC
TMDSPKIICI

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FIGURE 414

GCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGA
ACTAGTCCTCGACTCACGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGA
CCCTGGGCGTTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGT
TGAGAGTCCGAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTTCAGCA
CTACAACATCTCCCCCAGGATTTGGGAGACTGTATTTCCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAA
GACATTCACTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTT
TGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTAT
TCATTTCTGTGCAAAACAGGACTGGCTGATACTACATATTCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGA
TCTTCTGCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAA
AACTACAAATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGA
GAAAGGGAGTCCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAAT
TGTGCTGAAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGC
TCTTTGGGGAAGAACCCTCTGAAAAGAGAAAGATAAAAGCCCGAFTGCCCCCGAGGAATTAGCACTTGTTCACAA
CTTGAGGAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTGCGGCTTTGAGCCAGACTGGGTCTCTCTT
TAAGCCCCGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCC
CATCCTGGTTTTCCAATAACCCAAAGGAATTTGAAAGTTGTATTAGTATTATTTGGAAAACAATTGGCTTCA
ACATGAGAAAGCTCCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTTCTTAAGTAACGCGAACCCTCGCTGCTGGA
GCGGCACGTGTCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACC
CAGTAAGATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTTGACCTATGGGATTGGACAGGACTG
CAGTTGGCTCTGGACCTGCATTAAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTTCTTAA
ACTTTATATCAGTTTATTGGATGTGGTTTTTACATTTAAGATAATTATGGCTCTTTTCCTAAAAAATAAAATAT
CTTTCTAAAAA

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FIGURE 415

MMLKGITRLISRIHKLDPGRFLHMGTOARQSIAAHLNQVPVESPRAISRTNENDPAKHGDQHEGQHYNISPQDL
ETVFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLCHVIHFCAKQDW
LILHIPDAHLWVKNCRDLLQSSYNKQRFDOPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLEGEV
VEQGITRVNATDAVGIVLKEKLRQSSLGMFHLLVAVDGINALWGRTTLKREDKSPIAPEELALVHNLKMMKND
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKEFESCIQYYLENNWLQHEKAPTEE
GKKELLFLSNANPSLLERHCAYL

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FIGURE 416

TCTTCACCACTGCTCTCCCAGAGGTCCAGGTCCGGGAGATGACAGTGGCTCCCAGAAAGCCCAGGATTCAATCGC
TGAGAGAGTGTCTTAGGCCCCGAATGCCGGCCCCAAATCGTTCTACTCACCCTGTTCGGAGGCCGAGAGCGATGAGAGT
ACAGGGAAGTGAGGAAGAGGGGGTGGCCGCCAGGCTCCTCCGCTTCCCTGGGTCCACCGCGGATCCCTCCCGCTT
GTCAGGAGGCGGCCAGCGGGTAAGCCGACTGGCGGAAATGCGAGAGAGGAGAAGGGAAAGGTGGAGGGCTAAAGG
GGCAAACCTGAGAGGAGGCGGATCCCGCAACCGACACTGGGATCGTTTCCCCTCGCAAAGCGAACCCAAAATGGCG
GCGGCAGCGGCGGCAGCAGAGTGGCCGCGGCAGCTCCTCCAGAGGGAGGGAGCTAAGGGCGCCTAGCGACACCCC
CAACCTCCCCTCCTCCCTCCTCGCGTTCTTCCCCACGGTCCCCCGCTTCGCCCCGACTCCGGCCATGTAGCGCGC
ACGTACAGCCCGCACGCGTACGAGTGTCTACGGGCTCGTCGCTGGCTGCTCCACCAACCACCACCTTCGGCCGTC
CTGCGAGCCAGCCATCCCGTACGCGCTCACCCACGGGAACCTCCTCGCCCAGTTCTCCACTCCCCCTCAGACCCT
GTCAAGCCGGCTCCAGCGCAGGCCCTCACGCGTACCTTCAGCGGCGCGAGCCCAAGCCTTCTCCACCTCCTCTTC
TCTCCTCCCCCTCCCTCCCCGCGCCACGGCCACCAACCGCCGCCAAAGCAGCCGCCGCCAGCACCCCCACCCTA
CACTCCTCGCGCGTGCCTCCACAGTCCCCACCGCGGGACTGTTCCATTCTGGCGGCTGCAGGGGCAGGAGA
GGAAGGGACCGGCAAAGCGAGTCTGGCTTGCCGTTTGACTGGAATTGCCAGGGTGGCCGGCCGAGTCCCATGACA
ACCTACCTCCCTGGGTTCGTGCGCGCGGCGCTGCGGCTCGCTCCTCCATGGGACCGCGGCGAGGGGATCGA
GGGCGGCCCTAGCGCCCCCTCTGCCGGCCGGTGGTTGGAGGCCGCGGCGGCTGCGCGTTGAGTCGTTTCTGCCGGA
TGACCCGACCCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAG
TCTGGAGAAGTAGTCTCGACTCAGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCG
GGACTCCGGACCTCAGGAGGTAGGGAGTGAGGCCGGTAGACCGGCGCGCTCCGGGGGGGATTCTCCGGGGCG
TTGAGTTGCCAACCTGGGACCCGAGGAAGTTCGGCGTGGTGGTGTGCTTTTTGTTGTTGTTAACCTCCTCGGAT
TTCTCGAATTTACACCACTGTCCATATGCGATTGATGTTTGTGTTGCCCTTGACGCACTTACTCATGGATGGTACT
TCAGCCTCGTTAGACAGCCTGGTGATGGAGGATGAAGAAACCATGTGCTTCTCATTTCAGTTCTGGACTCAGTTTC
CCTTGCTTTCAGCAAGTTATTTTTGTTAGTTTCTTATCAAAAAGTGATACATAAAAAATTAGGCAACTCCAAACATG
CCTCCAGGGTTGGTGTGTGAAATAATAAGATAGGGCTGGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGG
GAGGCCGAGGCAGGTGGATGACAAGGTGAAGAGATCGAGACAATCCTGGCCAACATGGTGAAACCCCGTCTCTAC
TAAAAATACAAATATTAGCCGGCCGTGGTGGCGGGCGCTGTAGCCCCAGCTACTCGGGAGGCTGAGGCAGGAGA
ATTGCTTGAAACCCGGGCGGCGGAAGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGCGACAAAGCG
AGACTCCGTCACACACACACACACACACGAAATAATAATATATGTAAAGTGGAATTAGCTCCAAGTCGTTAAT
AAAACAAAGCAGGCCGGGCGTCTTGTTAAATAGTTGTATCAATGACTTGATTTAGATTAAATGAGGATATATTTTT
CAAAATTTATGCCTTTTACAAAATTTTTAAAGAGTAGGTAATGTCGGTGATAGATATAAAGAAAGGAAAAGATCTC
CAGATGTGGAATCTTCTACTGGATCCTGTAACAGAAAGAAGACATTAGGCTGGGCGCAGTGGCTCACACCTGTAA
TCTCAGCACTTTGGGAGGCGGAGGAGGGCGCATTGCTTGAGCCTAGGAGTTCGAGACCAGCTTAGGCAACACGGT
GAAACCCCATCTCTACAAAAAGACACAAAAATTAGACAGGTGTGGCACACGCTTGTAGTCTGAGCTACTTGGGAG
GCTGAAGCAGGAGGATTGAGGAAGAGGTTGCAAAGTTAGCCGAGATCACGCCATCACACTGCAGCCTAGGTGACA
GAGCGAGACCCTGTCTCAAAAAAAGAAAGAAGACATTAGCAGAAAAGCTGAGGAAATGCAAATAAAGTCTGCAAT
TTTTAAAT

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FIGURE 417

MTRPFFAVSGRALWSRPQAACVGRLVWRTPRLTVREWTDTGIVPLRERSGTPDLQEVGSEAGRPARLRGGFLPG
VELPTWDPKFGVVVCFLLLLTLLGFLEFHTTVHMR

[illegible]

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FIGURE 419

MGFSNMEDDGPEEEERVAEPQANFNTPOALRFEELLANLLNEQHQIAKELFEQLKMKKPSAKQQKEVEKVKPQCK
EVHQTLILDPAQRKRLQQMQQHVQLLTQIHLLATCNPNLNPEASSTRICLKELGTFAQSSIALHHQYNPKFQTL
FQPCNLMGAMQLIEDFSTHVSIDCSPHKTVMKTANEFCLPKQVAVILATSKVFMYPELLPVCSLKAKNPQDKIL
FTKAEDNLLALGLKHFEGTEFLNPLISKYLLTCKTARQLTVRIKNLNMNRAPDNIKFKYKTKQLPVLGKCCEEI
QPHQWKPPIEREEHRLPFWLKASLPSIQEELRHMDGAREVGNMTGTTEINSDQGLEKDNSELGSETRYPLLLPK
GVVLKLPVADRFPKKAWRQKRSSVLKPLLIQSPSLQPSFNPGKTPAQSTHSEAPPSKMVLRIPIQIPATVLQ
TVPGVPPLGVSGGESFESPAALPAMPPEARISFPLSESQTLLSSAPVPKVMMPSPASSMFRKPYVRRRPSKRRGA
RAFRCIKPAPVIHPASVIFTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPATLLVNPTSFFCPLNQPLVAS
SVSPLIVSGNSVNLPIPSTPEDKAHMNVDIACAVADGENAFQGLEPKLEPQELSPLSATVFPKVEHSPGPPVVDK
QCQEGLSSENSAYRWTVVKTEEGRQALEPLPQGIQESLNNSSPGDLEEVVKMEPEDATEEISGFL

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FIGURE 420

AGCGCAGT**AT**GGCGGGCGGGGCCCGGGAGGTGCTCACACTGCAGTTGGGACATTTTGCCGGTTTCGTGGGCGCGC
ACTGGTGGAAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGCCCCG
ACGTCCTGTATCGTACGGGCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCCTCATGGATCTGA
AGGGTAGTTTGAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGATGCTGCAATAGCATGGC
AGGGGAAGCTCACCACACACAAAGAGGAAGTCTATCCCAAGAACCCTTATCTCCAAGACTTTCTGAGTGCAGAGG
GAGTGCTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAAGGTTTCCTCACCCTCCCCACCG
CTACAACCTCCAAAACCACTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCCTCAGAGTCCATCTCC
ATCCCCGGAGCATCTGTATGATTGAGTACAAGTACAACCGATGGGGAAGCAGGTTCGGCTGGAGGCTTTTGCCCAAG
GGGAAAGTGTCTTAAAGGAACCCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCATTTCTACGTGGAGGAATGTG
ACTACTTGCAGGGCTTCCAGATCCTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGCGAAGGCGGCAGAGC
TGCTACAAGATGAATATTACAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGG
CCCAGAGAAACATCTATCGTCTATTAAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCT
GCCCCTTGTCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGATG
CCACTCTGCCCTTCCACTGCAGTGCCATCCTGGCTACAGCCCTGGACACAGTCACTGTTCCCTTATCGCCTGTGTT
CCTCTCCAGTTTCCATGGTTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAGGTGGTGACAGCAGGAGCAA
TCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCCCTGATTCCCTGGTGCAGTTTGGAGGAGCCACCCCATGGA
CCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACGTTGCTTTGCCCAGTCAGTGGTGTGAGGGGTATAGACA
GAGCATGCCACACAAGCCAGCTCACCCAGGGACACCTCCACCCTCTGCCCTTCATGCATGTACCACTGGGGAAG
AAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGGAGTCATGAGTTCTTCCCATCTGCTGCTGACTCCCTGCA
GGGTGGCTCCTCCTTACCCCCACCTCTTCTCAAGCTGCAGTCCACCGGGTATGGTTCTGGATGGTTCCCCCAAGG
GAGCAGCAGTGGAGAGCATCCAGTGTTTGGGGCACTGTGTTCTCTCGTCCCTGCACCAGACCCTGGAAGCCT
TGGCCAGAGACCTCACCAAACCTCGACTTGCGGCGCTGGGCCAGCTTCATGGATGCTGGAGTGGAGCACGATGACG
TAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCCAGTGCTACCAGGGTGGTGACAGCCTCGTGGACT**TAA**AGTT
CCCAGTGTGGGAGAAAGGAGCTAGTTTGCAATAAAAACAGCTGGATGCAGGAGCCCAGTGTCTTCATGCAGAGGA
GCTCAATGTGCGGGGACTAGCTACACCAACATATGCACCTTTTACATTTAGAAACACTGTGATTAGACCACAGAA
CAATAAATATGTGCCATCAGACC

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FIGURE 421

MAGGAREVLTTLQLGHFAGFVGAAHWWNQQDAALGRATDSKEPPGELCPDVLYRTGRTLHGQETYTPRLILMDLKGS
LSSLKEEGGLYRDKQLDAAIAWQGKLTTHKEELYPKNPYLQDFLSAEGVLSSDGVWRVKSIPNGKGSSPLPTATT
PKPLIPTEASIRVWSDFLRVHLHPRSICMIQKYNHDGEAGRLEAFQGQGESVLKEPKYQEELEDRLHFYVEECDYL
QGFQILCDLHDGFSGVGAKAAELLQDEYSGRGIITWGLLPGPYHRGEAQRNIIYRLNNTAFGLVHLTAHSSLVCPL
SLGGSGLRPEPPVSFPYLHYDATLPFHCSAILATALDVTVPYRLCSSPVSMVHLADMLSFCGKKVVTAGAIIP
FPLAPGQSLPDSLVOFGGATPWTPLSACGEPSTRCFAQSVVLRGIDRACHTSQLTPGTPPPSALHACTTGEEIL
AQYLQQQQPGVMSSSHLLLTPCRVAAPPYPHLFSSCSPPGMVLDGSPKGAIVESIPVFGALCSSSSSLHQTLEALAR
DLTKLDLRRWASFMDAGVEHDDVAELLQELQSLAQCYQGGDSLVD

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FIGURE 422

AGGTGAGAGAGGATGTGTGCTGGGCCTTGGAGGAAGGGGGCCGAGACCGGGCCTTACTTCTGTAACGATACTGTG
AGGCATCGGAAGGCCAGCCTGTTGTGTCCGTTTTGAAGGATGCCCCCTGTCCCGCTGGTTGAGATCTGTGGGGGTC
TTCCTGCTGCCAGCCCCCTACTGGGCACCCCGGGAGAGGTGGCTGGGTTCCCTACGGCGGCCCTCCCTGGTGCAC
GGGTACCCAGTCCTGGCCTGGCACAGTGCCCGCTGCTGGTGCCAAGCGTGGACAGAGGAACCTCGAGCCCTTTGC
TCCTCCCTCAGAATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTTC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG
GAGGTCCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTG
GTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGTGGAACCTGCTGCAA
GCTTTCTTCCTGGTGGCAGATGACATCATGGATTTCATCCCTTACCCGCCGGGGACAGATCTGCTGGTATCAGAAG
CCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCCTGCTGAAGCTCTAT
TGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCCTGCAGAGTTCCTATCAGACTGAGATTGGGCAG
ACCCTGGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTGAGATTCACTGAAAAGAGGTACAAATCTATT
GTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGC
GAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTCAGGATGATTACCTT
GACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTG
GTTCAGTGTCTGCAACGGGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAG
AAAGTGGCCCGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTCTTGCAATATGAGGAAGACAGT
TACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCCAGCCGTCTTCTGGGGCTTGCGCGC
AAAATCTACAAGCGGAGAAAGTGACCTAGAGATTGCAAGGGCGGGGAGAGGAGGCTCTCAATAAATAATCGTGTA
ACCTT.

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FIGURE 423

MPLSRWLRSVGVFLLPAPYWAPRERWLGSLLRPSLVHGYPVLAHWSARCWCQAWTEEPRALCSSLRMNGDQNSDV
YAQEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRGLTVVVAFRELVPRKQDADSLQR
AWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGVGLDAINDANLEACIYRLKLYCREQPYYLNLIEL
FLQSSYQTEIGQTLDLLTAPQGNVDLVRFTKRYKSIVKYKTAFYSFYLP IAAAMYMAGIDGEKEHANAKKILLE
MGEFFQIQDDYLDLFGDPSVTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELD
LPAVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

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FIGURE 424

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGGCACTTTCTGTCTTAGCTTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG
GGCGAACTGAGGCGAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGGAGGGCA
GAGGGCCGCGGAGGCCGAGTTGCAAACATGGCTCAGAGCAGAGACGGCGGAAACCCGTTTCGCCGAGCCCAGCGA
GCTTGACAACCCCTTTTACGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTA
CAACCCTTTTGTAGACCCGGGAGCCACCACCAGCCTATGAGCCTCCAGCCCCTGCCCCATTGCCCTCCACCCTCAGC
TCCCTCCTTGCAGCCCTCGAGAAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCTC
AGCTGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAG
GGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAATTGGCCCCCTCTACCTTCTTT
TTGTCCAGTTCAGCCCTGCTTTTTCCAGGACATCTCCATGGAGATCCCCCAAGAATTTCAGAAGACTGTATCCAC
CATGTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACCTTCTCGCCTGCCCTGGCCAGCTTCTGTGT
GGAAACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCTCTCTTTTCACTCCCTGCTCCTTTGTCTG
CTGGTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTCATTCAATTTCTTCGTTTTCTTCTTCATTTTCTT
CGTCCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCAGGTTGGGGATTCACTGGCTGGATCTCTGCTCT
GGTGGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCCGCTGCTCTTCACTGGCATTGCTGT
GCTAGGAATTGTCATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCAGCA
AGAATTTGCTGCTGGTGTCTTCTCCAACCCTGCGGTGCGAACCGCAGCTGCCAATGCAGCCGCTGGGGCTGCTGA
AAATGCCTTCCGGGCCCCGTGAACCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCC
GTCCCTAAGGTCTCTGGGACTTGGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCC
ATGACTGCTGAACCTGACAGGCGTGTGGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCAC
CTCTCACACGCCCCAACCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGT
GGAAGTGGAACTGACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 425

MAQSRDGGNPFAEPSELDNPFQDPAV IQHRPSRQYATLDVYNPFETREPPPAYEPPAPAPLP PPSAPSLQPSRKL
SPTEPKNYGSYSTQASAAAATAELLKKQEELNRKAEELDRRERELQHAALGGTATRQNNWPPLPSFCPVQPCFFQ
DISMEIQEFQKTVSTMYLWMCSTLALLLNFLACLASFVETNNGAGFGLSILWVLLFTPCSFVCWYRPMYKAF
RSDSSFNFFVFFFIFFVQDVLFLQAIGIPGWGFSGWISALVVPKGNTAVSVLMLLVALLFTGIAVLGIVMLKRI
HSLYRRTGASFQKAQQEFAAGVFSNPAVRTAAANAAAGAAENAFRAP

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FIGURE 426

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGGCACCTTCGTCTTAGCTTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG
GGCGAACTGAGGCGAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGAGGGCA
GAGGGCCGCGGAGGCCGCGAGTTGCAAACATGGCTCAGAGCAGAGACGGCGGAAACCCGTTTCGCCGAGCCCAGCGA
GCTTGACAACCCCTTTTCCAGCCACCACAGCCTATGAGCCTCCAGCCCCTGCCCCATTGCCTCCACCCCTCAGCTCC
CTCCTTGACGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATAACAGCACTCAGGCCTCAGC
TGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAGGGA
GCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAAATTGGCCCCCTCTACCTTCTTTTTG
TCCAGTTCAGCCCTGCTTTTTTCCAGGACATCTCCATGGAGATCCCCAAGAATTTCAGAAGACTGTATCCACCAT
GTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACCTCCTCGCCTGCCTGGCCAGCTTCTGTGTGGA
AACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCCTCTGGGTCCCTCCTTTTCACTCCCTGCTCCTTTGTCTGCTG
GTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTTCAATTTCTTCGTTTTCTTCTTCATTTTCTTCGT
CCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCCAGGTTGGGGATTTCAGTGGCTGGATCTCTGCTCTGGT
GGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCCGCTGCTCTTCACTGGCATTGCTGTGCT
AGGAATTGTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCCAGCAAGA
ATTTGCTGCTGGTGTCTTCTCCAACCTGCGGTGCGAACC GCAGCTGCCAATGCAGCCGCTGGGGCTGCTGAAAA
TGCCTTCCGGGCCCCGTGACCCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCCGTC
CCTAAGGTCTCTGGGACTTGGAGAGACATCACTAAGTATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCCATG
ACTGCTGAACCTGACAGGCGTGTTGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCACCTC
TCACACGCCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAAGAAAGTGGA
ACTGGAAGTGAATAAAAAAAAAAAAAA

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FIGURE 427

MAQSRDGGNPFAEPSELDNPFQPPPAYEPPAPAPLPPPSAPSLQPSRKLSPTTEPKNYGSYSTQASAAAATAELLK
KQEELNRKAEELDRRERELQHAALGGTATRQNNWPPLPSFCPVQPCFFQDISMEIPQEFQKTVSTMYYLWMCSTL
ALLLNFLACLASFCVETNNGAGFGLSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFFIFFVQDVLFLQA
IGIPGWGFSGWISALVVPKGNTAVSVLMLLVALLFTGI AVLGI VMLKRIHSLYRRTGASFQKAQQEFAAGVFSNP
AVRTAAANAAAGAAENAFRAP

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FIGURE 428

CCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGTGGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGC
GCCGCGGCCTCTCCCCACCAGGCGGCCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCGCCTCTAGAG
TCACCCACGCGGACCCCTCCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCTCCCCACCCGTCC
CTGGGCTCCAGGCGCGCGCCCCCTCCTCACTCCTGGACCGGCCCTTCTCGGTGCCCTCTTCCCTAGGGAGATGC
GATGAGCCGGTGCCCCCGGTCTCTATCGTCGCCCCGGGCACGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAG
CACTCCGCGGTCCCTCCGTGACGCCCCCTCGCTTGGCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGG
ACCCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGGTGGAGAGGAGAAAGGACGGGGCCTTGGGGGCCTCTGAGAT
GCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCTCGCCTAGTGACT
CCAGCCGCTCGCTGACCAGCGGGCCAGCACCAGGGGCCTTACCCACCTCCGCCTCCACCGACCCTGGCTGCAGG
CCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCG
TCACCACCACCGAGAGCATCAAGAGGTCTGCCCCGTCTTGGGCTGGGTCTCGCTGGCGTTCTCCGGGGTGGTTG
GCATTGTGTCTTGAAGCGGCCATTCACTCTAGTGATCTCCTTCTTCTCCTTGCTTTCCGTGCTCTGTGTCTATGC
TTAGCATGGCTGGCTCTGTTCTCTCCTGTAAGAATGCTCAACTGGCCCGAGACTTCCAACAGTGCTCTCTGGAAG
GAAAGGTCTGTGTGTGCTGTCCCTCTGTTCCCTCCTCCGCCCCGTGTCAGAGTCGGGGCAGGAAGTGAAGTTG
CCCCTAACCTCCACCTGTGATGAAGCCCCGAGGGGCCCTCAAGAACCTGCTCTTCAGCGTCTGTGGGCTCACCATT
GTGCCGCTATAATCTGTACACTCTCTGCTATTGTCTGCTGCATCAAATCTTCTCCCTGGACCTCGTGCATACGC
AGCTGGCCCCCTGAGCGGTCACTCTCAGGCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCCAGCCCCCTCTCC
TACACACCATGCTGGACCTGGAGGAATTTGTCCCGCTGTGCCCCCACCGCCCTACTATCCCCCAGAGTATACCT
GCAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGCTCCATGGACAGCCAGTGCCTTGTACCCTACCG
ATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTCTTTGACCCTCAGCTTC
ACGATGGCTCGTGCATCTGTGAACGAGTGGCCTCCATTGTAGACGTGTCCATGGACAGCGGGTCTCTGGTGTGT
CAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTGGAGGACTCGTGCCTGCTGGAGCTGCAGGGCTCCGTGC
GCTCCGTGGACTACGTCTCTTTCTGCTCCATCCAGCGCAGCCGTGCCGGCTACTGCCTCAGCCTGGACTGTGGCC
TGCGGGGCCCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCACCAGGCTGCCCGCTCCTATTCTGCTCTGCC
CTGAAGCTCCACCCCCACTGGGTGCCCCCAGCTGCCCGCAGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGG
TGGGACCCTGCTTCCCCGAGCTGAGGCGGCGGGTCCCCCGGGGAGGGGGCCGCCAGCCGACAGCCCCGCCACCC
GAGCCCCGACTCGTCGCTTCAGCGATAGCTCAGGTTCCCTCACCCACCGGGGCACCGGCCTCCTCATCCGGCAT
CCCCACCACCGCTGCTGCTGCCACGGTCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCA
GGGACCTTTATACCAAAGTGCTTGAGGAAGAAGTGCTTCTGTTTCTCTGTCAGATACAGGGCTCTGCTCTGAAG
CCTGCCTCTTCCGCCTAGCCCGCTGCCCTTCCCCCAAGTTGCTACGTGCCCGGTGAGCCGAGAAACGGCGCCCTG
TGCCACCTTCCAAAAGTTCCCCTGCCCTCGGGCCCTGCACCTGCCCACTCCCTGGGGGACCTAAAGGGCAGCT
GGCCAGGTGCGGGCCTGGTCACTCGTTTCTCCAGATATCCAGGAAAGCCCCAGACCCAGTGGGACTGGAGCTC
ATGGACATAAGCAGGTGCCCGGAGCCTGTGGGGCCGGCCTGGCCGAGAGAGCCTCCACCTTCGCAGCTGCGGAG
ATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCCGACAGCTGGAGCGTGGTACCCGCCCCCAGGCC
TCAGCCTCAACGGGGGCAGCCGGGAGACTGGGCTCTGACCTAGGCTTCTTGTACACTGAACACATCCAGCCACA
GGCACCAGCTGGTTGGGACCAGCAGCCCCCAGCATCCTCTTGCACTGGCTGGCACAAAAGAAACCTGCTGTATA
CCCCCAAAGTGTCCCTTTCCCTCCTACCTCTGGGGTCTCTTGCTGCTTGCTCTGCTGCTGCTGGGAGAG
CTTCTGTCTGTGCTGCATGGGTATTTAGACTGTGGGGGAGATGCCCTTCTTATAGCACTGGAGGAGGAAAACA
AATTCTTGTCCCCCTCAGAATGAGAGTGGCTCTTTCTGATTGCAAGGGCACTATGGTCAGGGCAAAGGCATGGC
CCAGGTGTTTAAGTACAGGGTGACGTGTGCCTATGCAATGGGGTGGTAAGGCAGGCACGAAGAGTCCAAAAATC
TAGGTGGCCTCTCAGCTCTGCCACCTCTAGCTGCATGACCTTGGGCAAGCTATGTAACCCCAATTGCCTGCTCCA
TTAAAGACTGTGAAGGTAGAATGTTTGTAAGCTCTTAACAGTATGTAAGCCTTCAATAAATTCAGTTTTCCCC
TT

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FIGURE 429

MMPSPSDSSRSLTSRPSTRGLTHLRRLHRPWLQALLTLGLVQVLLGILVVTFSMVASSVTTTESIKRSCPSWAGFS
LAFSGVVGIVSWKRPF TLVISFFSLLSVLCVMLSMAGSVLSCKNAQLARDFQQCSLEGKVCVCCPSVPLLRPCPE
SGQELKVAPNSTCDEARGALKNLLFSVCGLTICAAI ICTLSAIVCCIQIFSLDLVHTQLAPERSVSGPLGPLGCT
SPPPAPLLHTMLDLEEFVPPVPPPPYYPPEYTCSETDAQSITYNGSMDSPVPLYPTDCPPSYEAVMGLRGDSQA
TLFDPQLHDGSCICERVASIVDVSMDSGSLVLSAIGDLPGGSSPSEDSCLLELQGSVRSVDYVLFERSIQRSRAGY
CLSLDCGLRGPFEE SPLPRRP PRAARSYSCSAPEAPPPLGAPTAARSCHRLEGWPPWVGPCFP ELRRRVPRGGGR
PAAAPPTRAPTRRFSDSSGSLTPFGHRPPHPASPPLLLPRSHSDPGITTSSDTADFRDLYTKVLEEEAASVSSA
DTGLCSEACLFRLARCPSPKLLRARS AEKRRPVPTFQKVPLPSGPAPAHSLGDLKGSWPGRGLVTRFLQISRKAP
DPSGTGAHG HKQVPRSLWGRPGRESLHLRSCGDLSSSSSLRRLLSGRRLERGT RPHSLSLNGGSRETGL

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FIGURE 430

CAGTGCCCCACAGCTCTTCAGGCCCTTCCTGTGCCTGGCTGCCCTCCCACCCTACCCTTTTGTACCTCTGAGAAG
GCTCTGGCCCCACGCACAGCCCCACTGTCACCAGGGCCAGTATCTGTCTCAGGGACCTCCTATCCAGAGCCTGAG
CCAGCCCCAGCCCCAGCCCCAGCTCCAGCTGCTCCATCTGAACCTGTATCTTCTTCCAAGCCACCCATTACCCTC
TTGGAGTCAGACTCACGCATCTCCAAAGAAGAACTTTTGAGAGCCCAGGCGCTGAGAGAGCAGGGTCAGACACTC
CCGAGCCTCTCGGTACAGCTGTAGGGGCGACACAGGTAGGCTTGCAGCTGCGGGAACAGTGCCACCTCCGCACCT
AAGCACTCCCATTCTTGGCCAGCATCCTTGGGGCTCATCTCATACAATAGCCCCCGGTCTCAGAGCTACCTCCTT
CTCCAGCTCTTCTCGTCTCAGGCCTGTGCTCCCCAGTCAGCAGCTGTAGCCGTTCATGTACTGCCGCTGCAT
GCGGCCAGGCAGGAAGAAGTTGAGGGGAAAGGGCATAGCCTCTGCATACCCTTCCGGGTCACTTCTACGTAGTT
CTTGGTGTCTATCCAAAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACC
TGTCTGATTCAAGGTGGGCTTCTGACCTCCATGCTCTCCTGAGTCTCTGTGTGGGTCTGTGTGTTCCCGTCCCTT
CCCCGGCTGGCCATGGATGCTGGGAGGTCTGGGCACACTCACCAGCACCGGGATCAACTTCTCCTCCAGGAGAGA
CATGAAGGCCAGGGTGTCTGCCCTTGCTGAGCTGACAGATCATAATCAGCATTGTACTTCTGTGGAGGAATAT
CCATGGCGTGGACGCTGGGGAGCTGCAAGGGCACTTCACCAGGGAGGAAGGAGTCTGTCTGGTACCCCCCTCAC
TGGCCTCTGAGTGCAGTGGAGGTACAGCAAGGAACCTTTCTGCCAAGGCCCCCTTGCCTGGGCCCAGCCAGTAG
CCTGTTGCTGTTGGCAAAAAGCCTGGGCCTTGGAGCCGCTGGCCGTCAAGGTCTGGGCCATTGAGAAGAAGG
AAGAAAGGTTGGGCCGCAAACTAGGAGCAGCTCCCAGAATTTCCATGGAAAGCTGGAACAATGCCTGCTAGCAGC
AACTTTCTAACAGTAACTTTCCCGACCCAGACACCACAAAGCTAGCACAAACGGAGCTCAGATGCAGGCTAGGACT
CGGTCCATGCCTCAGGAACCAGGGAAAGCCATCCTCACACTCCCTGGATCCAGGGAACCCACGCCCAGGGCCCCC
CAGCTTGTTCCCTCAGTGCCCAGCTCTTGGCTATTTCTTTCACTTCATTCCATCGCCCAGACACCATTACCACAT
ACACATTCCATCCATACCCCCAGGTCTCAGCCTGCCCTACCTTCCCAGGCTCCAGTCCCTGTTCTCAGCATCCC
CCACCACATCCTGAGTAAGCTTTGTCCCCAGATAACCTCTTCAGCATGATCCTTAAATCTCCCTAAGCCTCAGTT
TCTCCCCTGTGGAATGGGGGTAAAGATCTCTTTCTCTGAATGCCCTGTGTTAGGAAATAATTTAGAATACTTCG
GAAACAAAAAGCTCTGTTACACCTAAGCAATCAGGGCAGTGGCCCTGGCCTTGCCAGGAACTTAGGCTTTTATC
TGGATCCTCTTTCCAGGCCTCTCAATTAATTCCCCAGGTCTTAACCTTTGGGAAATTAGAAATTAGGAAGAGTG
TCCCCTTCTGACACTGTGTTCCCTCTTGGAACCTGACCGTCAATGCTAGAAAGAACCTTGGAACATGCTGGC
CCAGCCCTCTAGTTTTACAAATAAGGGAGTGCACAGCCCTGAGAGGTTACATGGCCTGCCCAAGATCACGCAGTC
AATGGCAGAGTAAAGAGCATAGCCTAGGCCTCCCCACTCCTCTAGTAATGCTCTTTTCATCTTCTCCAACCTGGCT
CTAAGCCTTGTCATCCTGAGCCCCATATCTAGCCCAACCTAGTCCCTGAAAAACAAGAAGTGGCCCTTAGAAATC
TCTCTCAGTCCCACTATCAGAGGCCAAGTGTGCTTCCAGTCTCCTTCAGCCTGTGCTCCTCTCCCTCCCTGA
CTGACAGGCAGAAGGTACCGTGCCCTCTGGATATCCCCACAGTGGCCTGAGCTGCATCTCTTGCCGACTGCTTTAA
TACATCACAGTGACATTGTGTGTGTCTTGCCACCAGACTATTGCTCCTTGATGCTCTGGGTACCTGCATCTAG
CATGGCATATATCTAGTGCTCAATAAATGTGTATTGTACGG

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FIGURE 431

MAWTLGSCCKGTSPGRKESCLVPPSLASECSGGTARNFSCQGPLAWAQPVACCCWQKAWALEPAGRQGPPIEKKE
ERLGRKLGAAPRISMESWNNAC

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FIGURE 432

AAGCCCCAGCCCGGCCTCCGCTCCGGCCGCGCCACCGCCCCTGTTTTGTTTCCATGGCGACAGGCGGCGCAGGG
CCCGCTCCAAACATAACGCGCTGTGGAAAACATGCTGCTCGGGGGACCCCCCGCAGTCCCCGCTCGGGGACGAG
CCCCAAGGGGCCCCTGGAGCAGTACAGGCCACGTGCAGTTTGGCAAGAGCCCCCAGACCTGGCCCAGGCGCACAAAG
ACCCCGCTCTCCAGAGCCTGCCGCGCCTTCAAGGGTTCGGGGCTCCACTTGGACGAGGCGCCGTGACTCTCCGAG
GCGCGCCGGGCGGACAGCGCTGTCCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCGCCCTCCCCGAGGC
CCGCGGCCCAGTCCCCCGCAGTTCAGCTGCCAGTCGGGCCAGAAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGG
CCCCCTGACCGCAACGATCGGAGGGGCGGTGGCGGGGGGCGGGCCAGGCAGGGGAGGGCAGAAGCACACAAGGA
AGTGTTCGCGGACAGAGGGTGGGCAAGATGGCGGCGCCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGGGGCT
GCCGTCAGTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTGCTCCACTGAAGGTACACAA
GATCAGCAACCCCTGGCAGAGCCCTTCAGGAACTCTGCCTGCCCTTCGGACCAGTCATGGAGAGGTTCATCTCAGT
TCCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTTGGATAGACACCAAGAACTACGTGGAAGT
GACCCGGAAGTGGTATGCAGAGGCTATGCCCTTTCCCCTCAACTTCTTCCTGCCTGGCCGCATGCAGCGGCAGTA
CATGGAACGGCTACAGCTGCTGACTGGGGAGCACAGGCCTGAGGACGAGGAAGAGCTGGAGAAGGAGCTGTACCG
AGAGGCTCGGGAGTGTCTGACCCTGCTCTCTCAGCGCCTGGGCTCTCAAAAGTTCTTCTTTGGAGATGCCCCTGC
CTCCTTGGACGCCTTCGTCTTCAGCTACTTGGCCCTGCTGCTGCAGGCAAAGCTGCCCAGTGGGAAGCTGCAGGT
CCACCTGCGTGGGCTGCACAACCTCTGTGCCTATTGTACCCACATTCTCAGTCTCTACTTCCCCCTGGGATGGAGC
TGAGGTACCACCGCAACGCCAGACACCAGCAGGCCCAGAGACTGAGTGAGTGAGCCATACCGGCGCCGGAACCAG
ATCCTATCTGTGCTGGCAGTGAAGTGGCAGCCATGGTGGGCTACGCCTTGCTCAGCGGCATTGTCTCCATCCAGCG
GGCAACGCCTGCTCGTGGCCCCAGGCACCCGACCCCTGGGCATGGCTGAGGAGGATGAAGAGGAATGATTTGTCC
TCACGCTCCCAAGACTGGTTTTTCTACTCTCATGCATTCCAGAGGCCCCCGTGCCCTCCTCGTTGTTGGTACAGCC
GGACACGGGGTGTGCCACCCAGAATAAAGCCACTCACACTG

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FIGURE 433

GCCGGAAGCGCGCGGAGACCATGTAGTGAGACCCCTCGCGAGGTCTGAGAGTCACTGGAGCTACCAGAAGCATCAT
GGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGCCTGTGGG
GCTGGAGGTGAAGTTGGGGGCCCTGGTGCTGCTGCTGGTGCTCACCCCTCCTCTGCAGCCTGGTGCCCATCTGTGT
GCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGCCTAGTAAGCTGTTTCGC
GGGGGGCGTCTTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGGCTGCCATAGATGAGGCCCTGGC
AGCCTTGACGCTGACGCTCCAGTTCCCACTGCAAGAGTTCATCCTGGCCATGGGCTTCTTCCTGGTCTGGTGAT
GGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTACCTCTGGAGGAAACAAGGGCTCTGCTGGGAAC
AGTGAATGGTGGGCGCAGCATTGGCATGATGGGCCAGGGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCTC
AGCCTTGCGTGCCTGTGTACTGGTGTCTCCCTGGCCCTCCACTCCGTGTTTCGAGGGGCTGGCGGTAGGGCTGCA
GCGAGACCGGGCTCGGGCCATGGAGCTGTGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTGAGCCTGTC
CCTGCGGCTGTTGCAGAGCCACCTTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGATGACACC
TCTAGGCATCGGGCTGGGTGCAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCCAGTCTGTGCTAGA
GGGCATGGCAGCTGGCACCTTTCTCTATATCACCTTTCTGGAAATCCTGCCCCAGGAGCTGGCCAGTTCTGAGCA
AAGGATCCTCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATCTAGGG
GGCTTCAAGAGAGGGGCAGGGGAGATTGATGATCAGGTGCCCTGTTCTCCCTTCCCTCCCCAGTTGTGGGGAA
TAGGAAGGAAAGGGGAAGGGAAATACTGAGGACCAAAAAGTTCTCTGGGAGCTAAAGATAGAGCCTTTGGGGCTA
TCTGACTAATGAGAGGGAAGTGGGCAGACAAGAGGCTGGCCCCAGTCCCAAGGAACAAGAGATGGTCAAGTCGCT
AGAGACATATCAGGGGACATTAGGATTGGGGAAGACACTTGACTGCTAGAATCAGAGGTTGGACACTATACATAA
GGACAGGCTCACATGGGAGGCTGGAGGTGGGTACCCAGCTGCTGTGGAACGGGTATGGACAGGTCATAAACCTAG
AGTCAGTGTCTGTTGGTCTAGCCATTTACAGCACCCCTGCCACTTGGAGTGGACCCCTCCTACTCTTCTTAGCG
CCTACCCCTCATACCTATCTCCCTCCTCCCATCTCCTAGGGGACTGGCGCCAAATGGTCTCTCCCTGCCAATTTTG
GTATCTTCTCTGGCCTCTCCAGTCTGCTTACTCCTCTATTTTTAAAGTGCCAAACAAATCCCTTCTCTTTCT
CAAAGCACAGTAATGTGGCACTGAGCCCTACCCAGCACCTCAGTGAAGGGGGCCTGCTTGCTCTTTATTTTGGTC
CCGGATCCTGGGGTGGGGCAGAAATATTTTCTGGGCTGGGGTAGGAGGAAGGTTGTTGCAGCCATCTACTGCTGC
TGTACCCTAGGAATATGGGGACATGGACATGGTGTCCCATGCCCAGATGATAAACACTGAGCTGCCAAAACATTT
TTTTAAATACACCCGAGGAGCCCAAGGGGGAAGGGCAATGCCTACCCCCAGCGTTATTTTTGGGGAGGGAGGGCT
GTGCATAGGGACATATTCTTTAGAATCTATTTTATTAAGTACCTGTTTGGGACCTGTTACCCAAATAAAAGAT
GTTTCTAG

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FIGURE 434

AGAAAGAAAAGGTGTAGTGTTTGGGGAGGTCAACGGGCTATGCTGGCTTGACAGGGCTGGGCTCTTCAGAACAGA
AGCATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCCAGAGGATATCTTCTCGACAGGATCC
GTCCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGGTTCCGGTAACTAGGCTACAGGAACAGGGACTGCAAGGC
TGGAAGTCCGGTGGGGACCGTGGCTGTGGCCTTCAAGAGAGTGAGCCTGAAGATTTCTTGAAGCTTTTCATTGAT
CCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGGCATCTCTGAGGACCCCTGCCATCCAGAC
AGTCCCCCTGCCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTATGAGGCAGGGGCCCTGGAGAGG
ATGCAGGGGGAAACTGGGGCCAAATGTAGGCCTTATCTCCATCCAGCTAGATCAGTGGAGCCCAGCATTTATGGTG
CCTGATTCTGTCATGGTCAGTGAGCTGCCCTTTGATGCTCATGCCACATCCTGCCCAGAGCAGGCACCGTAGCC
CCAGTGCCCTGTACAACCCCTGCTGCCCTGTCAAACCCCTGTTCTGACCGATGAGGAGAAGCGTCTGCTGGGGCAG
GAAGGGGTTTCCCTGCCCTCTCACCTGCCCCCTCACCAAGGCAGAGGAGAGGGTCTCAAGAAGGTCAGGAGGAAA
ATCCGTAACAAGCAGTCAGCTCAGGACAGTCGGCGGCGGAAGAAGGAGTACATTGATGGGCTGGAGAGCAGGGTG
GCAGCCTGTTCTGCACAGAACCAAGAATTACAGAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGTA
GCTCAGCTCCGCCAGCTGCAGACGCTAATTGCTCAAACCTTCCAACAAAGCTGCCCAGACCAGCACTTGTGTTTTG
ATTCTTCTTTTTTCCCTGGCTCTCATCATCCTGCCCAGCTTCAGTCCATTCCAGAGTCGACCAGAAGCTGGGTCT
GAGGATTACCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAATCTGGAGACC
CAAGTGGTAGAGTCCAGACTGAGGGAGCCACCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTGAG
AAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATGTGAGCTGGAACA
GACCTTCCTGGCCCACTTCCTGATCACAAGGAATCCTGGGCTTCCTTATGGCTTTGCTTCCCACTGGGATTCTTA
CTTAGGTGTCTGCCCTCAGGGGTCAAATCACTTCAGGACACCCCAAGAGATGTCCTTTAGTCTCTGCCTGAGGC
CTAGTCTGCATTTGTTTGCATATATGAGAGGGTACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTC
TTTGGGTATAGGGTTGAGGGGAAATAAGTTTTGAGTGAGAAATAAACGTTTTAGCTGAAATTGT

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FIGURE 435

MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQGLQGWSGGDRGCGLQESEPEDFLKLFIDP
NEVYCSEASPGSDSGISEDPCHPDSPPAPRATSSPMLYEVVYEAGALERMQGETGPNVGLISIQLDQWSPAFMVP
DSCMVSELPFDAHAHILPRAGTVAPVPCTTLLPCQTLFLTDEEKRLLGQEGVSLP SHLPLTKAEERVLKKVRRKI
RNKQSAQDSRRRKKEYIDGLESRVAACSAQNQELQKKVQELERHNISLVAQLRQLQTLIAQTSNKAQTSTCVLI
LLFSLALIILPSFSPPQSRPEAGSEDYQPHGVTSRNILTHKDV TENLETQVVESRLREPPGAKDANGSTRITLEK
MGGKPRPSGRIRSVLHADEM

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FIGURE 436

GCAGAGCGCCACCGACGCGGAAGACTATAAGCCCCAGCGGGCGACGACCGAACGCCCCGGGAACACCGGGCCCC
GAGCTCGGTCCCGCGCCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGGCGGGAGCGGAGGTGAGCGGG
CGCTAGGGCCGCGAGCCCCCGCCGGCCCTTCCTCCAGCGCCCTGCGGACCCCGCAGAAGGCGCTCGCCTCCCTAG
CCCGCAAAAACATATCGATTTTCTCGCTGTGGCAACGGGGACGTCCTGATAGATCCTCTGCTCCAATAGGCAAC
TCCGGCCTTCCCTGCCCTGACCTGGAACCTCTGGGAGGGCTGCAGAGTAAGTGCCGCTCTGCGCTCCGACGGAG
GCACGAGGCCTGTGGAGTAGGTCCCTCTGTTCCGACAGGTGCGACACTTGGCGCTCCATCCTTGCGGGTGCCGGG
AGGCCTGGCCTCCCCAGGGCCGCCACCTCTGCTGGTTGCTCTGTGCTTTACCTTAAAGCTCTGCCAAGCAGAG
GCTCCCGTGCAGGAAGAGAAGCTGTCAGCAAGCACCTCAAATTTGCCATGCTGGCTGGTGGAAGAGTTTGTGGTA
GCAGAAGAGTGCTCTCCATGCTCTAATTTCCGGGCTAAACTACCCCTGAGTGTGGTCCCACAGGATATGTAGAG
AAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAGCTGCCGCTCAGCTTTGATGGAACAACGCTTATTT
TGGAAGTTCGAAGGGGCTGTCGTGTGTGTGGCCCTGATCTTCGCTTGCTTGTGTCATCATTGTCAGCGACAATTG
GACAGAAAGGCTCTGAAAAGGTCCGGAAGCAAATCGAGTCCATATAGCTACATTCCACCCTTGATCCTGGGTC
TTAGAGACCCTATCTCAGACAGTGAAAGTGAAATGGACTGATTGCACTCTTGTTCTTTGGAGCCTTGTTGGTGG
AATCCCTTTTCCCCTCTTCTTTTCAGATCATTAATGAGCAGAATAAAAAGAGTAAAATGGT

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FIGURE 437

MLAGAGRPGLPQGRHLCWLLCAFTLKLCQAEAPVQEEKLSASTSNLPCWLVEEFVVAEECSPCSNFRAKTTPECG
PTGYVEKITCSSSKRNEFKSCRSALMEQRLFWKFEGAVVCVALIFACLVIIRQRQLDRKALEKVRKQIESI

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FIGURE 438

GAATTCGAGGATCCGGGTACCATGGGAGGAAAACCTTCTTCCTGGCCTGGGCTCCGTGCCGCTCTGTTTGCCAACC
GTCCAGTCCCGCCTACCAGTGCCGGGCGCTCCCCACCCCTCCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGC
CTACGACCACCTCTTCAAGTTGCTGCTGATCGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTGCTTTGC
AGAGGACAACCTTCAACAACACTTACATCTCCACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGG
GAAGAAGATCAAAC TACAAGTCTGGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCG
TGGAGCCATGGGCATTATCCTAGTATACGACATCACGGATGAGAAATCTTTTCGAGAATATTCAGAACTGGATGAA
AAGCATCAAGGAGAATGCCTCGGCTGGGGTGGAGCGCCTCTTGCTGGGGAACAAATGTGACATGGAGGCCAAGAG
GAAGGTGCAGAAGGAGCAGGCCGATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATC
CAGTATGAATGTGGATGAGGCTTTTAGTTCCCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGG
AAACGGCAACAAGCCTCCCAGTACTGACCTGAAAACTTGTGACAAGAAGAACCAACAAGTGCTCCCTGGGCTTG
AGGACCCTTTCTTGCTCCCCACCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGGAGA
AATAGCAGAGGGGCTTGGAGGGTCACATAGGTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAG
CAGAAAGGAAAAAAGGAAGAGAGAGGAAGGGAGAGGAATGAATTGAGGAAGTGAAGAAGGCAAGGA
GGTAGGAAGAGAGGGAGGAGGAAAGGAAGGAGAGAGATGCCCTCAGGCTTCAGACCTTACCTGGGTTTTTCAGGGCA
AACATAAATGTAAATACACTGATTTATTCTGTTACTAGATCAGGTTTTAGGGTCCTGCAAAAGGCTAGCTCGGCA
CTACACTAGGGAATTTGCTCCTGTTCTGTCACTTGTGATGGTCTTTCTTGGTATTAAAGGCCACCATTGCACAA
AAAAAAAAAAAAACCATGGTACCCGGATCCTCGAATTC

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FIGURE 439

MAKAYDHLFKLLLLIGDSGVGKTCLIIRFAEDNFNNTYISTIGIDFKIRTVDIEGKKIKLQVWDTAGQERFKTITT
AYYRGAMGIILVYDITDEKSFENIQNWMKSIKENASAGVERLLLGNKCDMEAKRKVQKEQADKLAREHGIRFFET
SAKSSMNVDFAFSSLARDILLKSGGRRSGNGNKPPSTDCLKTCDKKNNTNKCSLG

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FIGURE 440

CCTTTCCGGCGGTGACGACCTACGCACACGAGAACAATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAG
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCAG
GATGCTATAAAATCACCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTTAAAAGCACTCTG
AGTCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 441

MPLAKDLLHPSPEEEKRKHKKKRLVQSPNSYFMDVKCPGCKYKITTTFSHAQTVVLCVGCSTVLCQFTGGKARLTE
GCSFRRKQH

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FIGURE 442

ACTCAGGCAGCAGCCCCTTCTTTCTTGCCCCAGTCTCCAGTTCTCCAGTGTTACAGGTGAGCCTACCAACAGCC
ACTGCTCATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAGGAGAATGCTCTGGATCGGGC
AGAGCAAGCTGAAGCTGAGCAGAAGCAGGCAGAAGAAAGAAGTAAACAGCTGGAGGATGAGCTGGCAGCCATGCA
GAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCTGAAGCTTTGAAGGATGCCCAGGAGAAGCTGGA
ACTGGCAGAGAAGAAGGCTGCTGATGCTGAGGCTGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGA
AGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGA
GAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGGAAATCCA
ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCAT
TGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCTAAGTGTTCTGAGCTGGAGGAGGAGCT
GAAGAATGTCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGATAAATATGA
GGAAGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGC
CAAGCTGGAAAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCCAGAACTGAAGTACAAGGCCATTAGCGA
GGAGCTGGACCACGCCCTCAATGACATGACCTCTATATTAATTATCACCGTTTCTGCTCTGTTCTGGATCTGCCCC
CTTTACTCCTCGGGGAACCCAAGGCCCACTCTCGCTCTGGATTCCATTTGGGTCAGCCTGGCTGGTCCCCAAGG
CATTAGGATGGGGGAGCAAAAAGCAACTTATGTATTTTCTTCCACCCCCACCCCAAATTAAATGTTAAGCTGCT
GGA

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FIGURE 443

MMEAIAKKKMQLKLDKENALDRAEQAEAEQQAERSKQLEDELAAMQKKLKGTEDELDKYSEALKDAQEKLELA
EKKAADAEAEVASLNRRRIQLVEEELDRAQERLATALQKLEEAKAADSESRGMKVLENRALKDEEKMELOEIQLK
EAKHIAEEADRKYEEVARKLVIIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKYSQKEDKYEEE
IKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAISEELDHALNDMTSI

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FIGURE 444

GTCAGCGGGGAAGCTGGAAGGCGTCGTTCTCCTTTCCAGCTCTCCTGCCTGTCCGCCATGTTTTCAGGCCGGGT
CTGGCTTGGTCTTCCCCCGTAAGGAAATGGCCGGGGAGCTCCAGGGGACCCAGGCGCCGTCGCTTCGGCGGAGCT
GGGCTGACCAGCCAGGACAGCGGGGTAAACCCGAACAATTCTGCGGAGGTAGGGAGGCCATGGCGTCCGGCAGT
AACTGGCTCTCCGGGGTGAATGTCGTGCTGGTGATGGCCTACGGGAGCCTGGACTTGAAAGAGGAGATTGATATT
CGACTCTCCAGGGTTCAGGATATCAAGTATGAGCCCCAGCTCCTTGCGAGATGATGCTAGACTACTACAAGTG
GAAACCCAGGGAAATCAAAGTTGCTACAACATCTGTATAGGATGAAAGCTCTGGATGCCATTCGTACCTCTGAG
ATCCCATTTTATTCTGAAGGCCGGCATCCCCGTTTCCTTAATGGGCAAGAATTTCCGCTCCTACCTGCTGGATCTG
CGAAACACTAGTACGCCTTTCAAGGGTGTACGCAAAGCACTCATTGATACCCTTTTGGATGGCTATGAAACAGCC
CGCTATGGGACAGGGGTCTTTGGCCAGAATGAGTACCTACGCTATCAGGAGGCCCTGAGTGAGCTGGCCACTGCG
GTTAAAGCACGAATTGGGAGCTCTCAGCGACATCACCAGTCAGCAGCCAAAGACCTAACTCAGTCCCCTGAGGTC
TCCCCAACAACCATCCAGGTGACATACCTCCCCTCCAGTCAGAAGAGTAAACGTGCCAAGCACTTCCTTGAATTG
AAGAGCTTTAAGGATAACTATAACACATTGGAGAGTACTCTGTTCACGGAGCTGAAGGACTCTTGCCGTAGATTAA
GCCAGTCAGTTGCAATGTGCAAGACAGGCTGCTTGCCGGGCCGCCCTCGGAACATCTGGCCCAGCAGGCCAGAC
TGTATCCATCCAAGTTCCCGTTGTATCCAGAGTTCTTAGAGCTTGTGTCTAAAGGGTAATTTCCCCAACCCTTCCT
TATGAGCATTTTTAGAACATTGGCTAAGACTATTTTCCCCCAGTAGCGCTTTTTTCTGGATTTGCATTCGGGTGT
TATTCCTTAATGTTTCTGTCAAAGCTTCTTAAAAATCTTCACTTGGTTTCAGCCATAGTTCACCTTCCCTGTTCCA
GGTTTATTTAATTCCAAAGGTGAGAGTTGGAGTGAGATGTCTTCCATATCTATACCTTTGTGCACAGTTGAATGG
GAACTGTTTGGGTTTAGGGCATCTTAGAGTTGATTGATGGAAAAAGCAGACAGGAAGTGGTGGGAGGTCAAGTGG
GGAAGTTGGTGAATGTGGAATAACCTTACCTTTGTGCTCCACTTAAACCAGATGTGTTGCAGCTTTCCTGACATGC
AAGGATCTACTTTAATTCCACACTCTCATTAAATAAATTGAATAAAAGGGAATGTTTGGCACCTGATATAATCTG
CCAGGCTATGTGACAGTAGGAAGGAATGGTTTCCCCTAACAAGCCCAATGCACTGGTCTGACTTTATAAATTATT
TAATAAAATGAACATATTATCAAATAAAACGTATGAATCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 445

MASGSNWLSGVNVVLVMAYGSLDLKEEIDIRLSRVQDIKYEPQLLADDDARLLQLLETQGNQSCYNYLYRMKALDA
IRTSEIPFHSEGRHPRSLMGKNFRSYLLDLRNTSTPFKGVRKALIDTLLDGYETARYGTGVFGQNEYLRVQEALS
ELATAVKARIGSSQRHHQSAAKDLTQSPEVSPTTIQVTYLPSSQKSKRAKHFLKSFKONYNTLESTL

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FIGURE 446

CCCGACTAAGTGACTTAAACTCCCACCTACTCCTGGAATAAGGAGTCAAAGCCCGGATAGGCGCAGTATTCTACC
TTGTAAATACTGTTATTTGTATATACTGTAAATGATGACATCGGTGGGCACTAACCGAGCCCGGGGAAACTGGGA
ACAACCTCAAACCAAAACCAGACACAGCACAAGCAGCGGCCACAGGCCACTGCAGAACAAATTAGACTTGCACA
GATGATTTTCGGACCATAATGATGCTGACTTTGAGGAGAAGGTGAAACAATTGATTGATATTACAGGCAAGAACCA
GGATGAATGTGTGATTGCTTTGCATGACTGCAATGGAGATGTCAACAGAGCTATCAATGTTCTTCTGGAAGGAAA
CCCAGACACGCATTCTCTGGGAGATGGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGA
ATCCAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACGTGGTGGGCCACCAAGACG
GGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGGTTCAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCC
TTCTGGAAGAGGAACAGAAAGAGGCGAGAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGGAGGAAG
GTTTTCTGCTCAAGGAATGGGAACCTTTAACCAGCTGATTATGCAGAGCCAGCCAATACTGATGATAACTATGG
CAATAGCAGCGGCAATACGTGGAACAACACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGC
AACAGAGGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCACTGCCTCTAATGTGTC
TTCAGTGCCTCTGCCTGCGGAGAATGTGACAATCACTGCTGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAA
GACACCATCTACAATGGAGAATGATTATCTAATCTGGATCCGTCTCAGGCTCCTTCTCTGCCCCAGCCTCTGGT
GTTTCAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACACATTTTCTCATCACAGTATGGTGAG
CATGTTAGGGAAAGGATTTGGTGATGTCGGTGAAGCTAAAGGCGGCAGTACTACAGGCTCCAGTTCTTGAGCA
ATTCAAGACTGCCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCACCCTCTCTTG
GGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAGTATGATTTGAAGAACCAAGTGATTTCAGCAGTGCA
CAGCCCCCTTTACAAAGCGCCAGGCTTTTACCCCATCTTCAACCATGATGGAGGTGTTCTCTCAGGAGAAGTCACC
TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGTCTTCTCTCTGCCAAGCAAATCCACATCGGCTCCACA
GATGTGCGCTGGATCTTCAGACAACCAGTCTCTAGCCCTCAGCCGGCTCAGCAGAACTGAAACAGCAGAAGAA
AAAAGCCTCCTTGACTTCTAAGATTCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATATCTCAGGGCTAAA
CCTGCAGTTTGGGGCATTGCAGTTTGGGTGAGAGCTGTCTTTCTGATTATGAGTCCACCCCCACCACGAGCGC
CTCTTCAAGCCAGGCTCCAAGTAGCCTGTATACCAGCACGGCCAGTGAATCATCTCTACAATTTTCTAATCCA
GAGTCAGGAGTCTGGTTATCAGAGCGGCCAATTTCAGTCGACAACCTATACCTCCCAAATAATGCTCAGGGCCC
TCTTTATGAACAGAGATCCACACAGACTCGGCGGTACCCAGCTCCATCTCTTCATCACCCCCAAAAGGACCTGAC
TCAGGCAAAGAATGGCTTCAGTTCTGTGACGGCCACGCAGTTACAGACCACACAATCTGTTGAAGGTGCTACAGG
CTCTGCAGTGAAATCTGATTACCTTCCACTTCTAGCATCCCCCTCTCAATGAAACGGTATCTGCAGCTTCTCT
ACTGACGACAACCAATCAGCATTCTCTCTTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCAC
CACACAACACAGCAGCAGCTTATCTACGCAGCAGAATACCCTTTCATCATCAACATCTTCTGGGCGCACTTCGAC
ATCCACTCTTTTGCACACAAGTGTGGAGAGTGAGGCGAATCTCCATTCTTCTCCAGCACTTTTTCCACCACATC
CAGCACAGTCTCTGCACCTCCCCAGTGGTCACTGTCTCTCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCTCAG
CCTAGGCAGCAACTCCACTGTACAGCCTCGACTCGAAGCTCAGTTGCTACGACTTCAGGAAAAGCTCCTCCCAA
CCTCCCTCCTGGGGTCCCGCGTTGTTGCCTAATCCGTATATTATGGCTCCAGGGCTGTTACATGCCTACCCGCC
ACAAGTATATGGTTATGATGACTTGCAGATGCTTCAGACAAGATTTCCATTGGATTACTACAGCATCCCATTTCC
CACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGCCAGCAACCCCTATTCTGGTGACCTCACAAAGTT
CGGCCGTGGGGATGCCTCCTCCCCAGCCCCGGCCACAACCTTGGCCCCAACCCCAACAGAACCAGACGCAGACTCA
CCATACCACGCAGCAGACATTCTGAACCCGGCGCTGCCTCCTGGCTACAGTTACACCAGCCTGCCATACTATAC
AGGGGTCCCGGGCCTCCCCAGCACCTTCCAGTATGGGCCTGCTGTGTTCCTGTGGCTCCTACCTCTTCCAAGCA
GCATGGTGTGAATGTGAGTGTGAATGCATCGGCCACCCCTTTCCAACAGCCGAGTGGATATGGGTCTCATGGATA
CAACACTGGAAGAAAATATCCACCCCTTACAAGCATTCTTGACGGCTGAGAGCTAAATTTGGCCCCAAGGCTGGG
GGCTGTGTTTTGTGTGTGTGTATAAATTTGCACTGAAGTCTTGTTTCAGAAACCAGACCCTGAGGAGAGCCTGC
TGAGCTGAGGCCATGGCCTGCGTGGCTTGGGGAAATGAGTTGGTGGATACCTTCTGGGCTTTTGAACCTTGCCCT
CCCCATTTCCCTCTCCCCATGTGTCTGACCCTGTCTTACCCATTTCAAGTTCAAGCGGTGCAGCACCTTCGAA
GCATCAATGCACACACCTGCTGTTGCTTTTGATTCTGGAAGGCATGTAGTTTCAACTTGAACAAAAATATTG
TAGTCTTCAATAAACTGTGGTATTTCTTTAGCTAAC

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FIGURE 447

MMTSVGTNRARGNWEQPQNQNTQHKQRPQATAEQIRLAQMISDHNDADFEKVKQLIDITGKNQDECVIALHDC
NGDVNRAINVLLEGNPDTHSWEMVGKKKGVSGQKDGQTESNEEGKENRDRDRDYSRRRGPPRRGRGASRGREF
RGQENGLDGTKSGGPSGRGTERGRRGRGRGRGSGRRGGRFSAQGMGTFPADYAEPANTDDNYGNSSGNTWNNT
GHFEPDDGTSAWRTATEEWGTEDWNEDLSETKIFTASNVSSVPLPAENVITITAGQRIDLAVLLGKTPSTMENDSS
NLDPSQAPSLAQPLVFSNSKQTAISQPASGNTFSHHSMVSMMLGKGFVDVGEAKGGSTTGSQFLEQFKTAQALAQL
AAQHSQSGSTTTSSWDMGSTTQSPSLVQYDLKNPSSSAVHSPFTKRQAFTPSSTMMEVFLQEKSPAVATSTAAPP
PPSSPLPSKSTSAPQMSPGSSDNQSSSPQPAQQKLKQQKKKASLTSKIPALAVEMPGSADISGLNLQFGALQFGS
EPVLSDYESTPTTSASSSQAPSSLYTSTASESSSTISSNQSQESGYQSGPIQSTTYTSQNNAQGPLYEQRSTQTR
RYPSSISSSPQKDLTQAKNGFSSVQATQLQTTQSVEGATGSAVKSDSPSTSSIPPLNETVSAASLLTTTNQHSSS
LGGLSHSEEIPNTTTTQHSSSTLSTQONTLSSTSSGRTSTSTLLHTSVESEANLHSSSSTFSTTSSTVSAPPPVV
SVSSSLNSGSSLGLSLGNSSTVTASTRSSVATTSGKAPPNLP PGVPPLLPNPYIMAPGLLHAYPPQVYGYDDLQM
LQTRFPLDYYSIPFPTPTTPLTGRDGSLASNPYSGDLTKFGRGDASSPAPATTLAQPQQNQTQTHHTTQQTFLNP
ALPPGYSYTSLPYYTGVPGLPSTFQYGPVFPVAPTSSKQHGVNVSVNASATPFQQPSGYGSHGYNTGRKYPPPY
KHFWTAES

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FIGURE 448

CCTACAGAGGGGTCCATACCGTGTGTTCTGGATTCCCGTTGTAACCTAAAGGGAAAATTTTCACAATGTCCAGAG
CCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCCTTGACAGCAGGAACCCACTTAGGTGGCACTA
ATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTACATCATAAATCTGAAGAGGA
CCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATATCCT
CCAGGAATACTGGCCAGAGGGCCATGCTGAAGTTTCTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCACTTCA
CTCCTGGAACCTTCACTAACCGGATCCAGGCAGCCTTCCGGGAGCCACAGCTTCCTGTGGTTACTGACCCAGGG
CTGACCACCAGCCTCTCACGGAGGTATCTTATGTTAACTTACCTACCATTGCGCTGTGTAACACAGATTCTCCTC
TGCGCTATGTGGACATTGCCATCCCATGCAACAATAAGGGAGCTCACTCAGTGGGTTGGATGTGGTGGATGCTGG
CTCAGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGATCTCTGCTTCT
ACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAGAGGCAGTGACCAAGGAGGAATTCAGG
GTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTCTGCAGG
TGCCCTCTGTGTCTATTCAGTAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAG
CTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAAGCTGTTCTTGCATGGGCTCTTA
AGCAACATGGAAAAATGGTTGATGGAAAATAAATAAACATCAGTTTCT

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FIGURE 449

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAMLKFAAATGATPIAGHFTPGTFTNRIQAAFREPQLPVVTDPRADHQPLTEVSYVNLPTIALCNT
DSPLRYVDIAIPCNNKGAHSGVGMWWMLAQEVLRMRGTISRHPWEVMPDLCFYRDPEEIEKEEQAAAEAEAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGLQVPSVSIQSSLLKTGALS LPRKTGLQLPLLRPLNGVGATTEWS

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FIGURE 450A

CGAAATTGAACCGGAGCCATCTTGGGCCCCGGCGCGCAGACCCGCGGAGTTTCCCGTGCCGACGCCCCGGGGCCAC
TTCCAGTGCGGAGTAGCGGAGGCGTGGGGGCCCTCGAGGGGCTGGCGCGGCCAGCGGTGCGGCCAGGGTTCGTGCC
GCCGGCGGGTCGGGCCGGGCAATGCCTCGCGGGCGCAATGAATCCGCGGCAGGGGTATTCCCTCAGCGGATACTA
CAGCCATCCATTTCAAGGCTATGAGCACAGACAGCTCAGGTACCAGCAGCCTGGGCCAGGATCTTCCCCAGTAG
TTTCTGCTTAAGCAAATAGAATTTCTCAAGGGGCAGCTCCCAGAAGCACCGGTGATTGGAAAGCAGACACCGTC
ACTGCCACCTTCCCTCCCAGGACTCCGGCCAAGGTTTCCAGTACTACTTGCCTCCAGTACCAGAGGCAGGCAAGT
GGACATCAGGGGTGTCCCCAGGGGCGTGATCTCAGAAGTCAGGGGCTCCAGAGAGGGTTCCAGCATCCTTCACC
ACGTGGCAGGAGTCTGCCACAGAGAGGTGTTGATTGCCTTTCCCTCACATTTCCAGGAAGTGAATCTACCAAGA
TCAGGAACAAAGGATCTTAAAGTTTCTGGAAGAGCTTGGGGAAGGGAAGGCCACCACAGCACATGATCTGTCTGG
GAACTTGGGACTCCGAAGAAAGAAATCAATCGAGTTTTATACTCCCTGGCAAAGAAGGGCAAGCTACAGAAAGA
GGCAGGAACACCCCTTTGTGGAAAATCGCGGTCTCCACTCAGGCTTGAACCAGCACAGCGGAGTGGTAAGACC
AGACGGTCATAGCCAAGGAGCCCCAACTCAGACCCGAGTTTGAACCGGAAGACAGAACTCCACATCTGTCTC
AGAAGATCTTCTTGAGCCTTTTATTGCAGTCTCAGCTCAGGCTTGAACCAGCACAGCGGAGTGGTAAGACCAGA
CAGTCATAGCCAAGGATCCCCAACTCAGACCCAGGTTTGAACCTGAAGACAGCAACTCCACATCTGCCTTGGGA
AGATCCTCTTGAGTTTTTAGACATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTCTTCAATGTGTCTGACTC
CTCTGCCCTGAATTTGGCTAAAAATATTGGCCTTACCAAGGCCGAGATATAAATGCTGTGCTAATTGACATGGA
AAGGCAGGGGGATGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGAT
GCAATCAAGAGAAATACGAACAGTGTTCCTGAAACCGCTCCAGCTGCAATCCCTGAGACCAAAAGAAACGCAGA
GTTCTCACCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAACCACAGAAAAAGTGGAGAATGGGCA
GGAACCTGTCTATAAGTTAGAAAACAGGCAAGAGGCCAGACCAGAACCAGCAAGACTGAAACCACCTGTTTATTA
CAATGGCCCCCTCAAAGCAGGGTATGTTGACTTTGAAAATGGCCAGTGGGCCACAGATGACATCCCAGATGACTT
GAATAGTATCCGCGCAGCACCAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCTTCTACAGTCATGGCTTGCC
ACGGTGTTCACCTACAAGAACTGACAGAGTGCCAGCTGAAGAACCCCATCAGCGGGCTGTTAGAATATGCCCA
GTTGCTAGTCAAACCTGTGAGTTCAACATGATAGAGCAGAGTGGACCACCCCATGAACCTCGATTTAAATTTCCA
GGTTGTCATCAATGGCCGAGAGTTTCCCCCAGCTGAAGCTGGAAGCAAGAAAGTGGCCAAGCAGGATGCAGCTAT
GAAAGCCATGACAATTCTGCTAGAGGAAGCCAAAGCCAAGGACAGTGGAAAATCAGAAGAATCATCCCACTATTC
CACAGAGAAAGAATCAGAGAAGACTGCAGAGTCCCAGACCCCCACCCCTTCAGCCACATCCTTCTTTTCTGGGAA
GAGCCCCGTACCCACACTGCTTGAGTGTATGCACAAATTGGGGAACCTCTGCGAATTCCGTCTCCTGTCCAAAGA
AGGCCCTGCCCATGAACCCAAGTTCCAATACTGTGTTGCAGTGGGAGCCCCAACTTTCCCCAGTGTGAGTGCTCC
CAGCAAGAAAGTGGCAAAGCAGATGGCCGCAGAGGAAGCCATGAAGGCCCTGCATGGGGAGGCGACCAACTCCAT
GGCTTCTGATAACCAGCCTGAAGGTATGATCTCAGAGTCACTTGATAACTTGAATCCATGATGCCCAACAAGGT
CAGGAAGATTGGCGAGCTCGTGAGATACCTGAACACCAACCCGTGGGTGGCCTTTTGGAGTACGCCCCGTCCCA
TGGCTTTGCTGCTGAATTCAAGTTGGTTCGACCAGTCCGGACCTCCTCACGAGCCCAAGTTTCGTTTACCAAGCAAA
AGTTGGGGGTGCTGTTTCCAGCCGTCTGCGCACACAGCAAGAAGCAAGGCAAGCAGGAAGCAGCAGATGCGGC
TCTCCGTGTCTTGATTGGGGAGAACGAGAAGGCAGAACGCATGGGTTTACAGAGGTAACCCAGTGACAGGGGC
CAGTCTCAGAAGAACTATGCTCCTCCTCTCAAGGTCCCCAGAAGCACAGCCAAAGACACTCCCTCTCACTGGCAG
CACCTTCCATGACCAGATAGCCATGCTGAGCCACCGGTGCTTCAACACTCTGACTAACAGCTTCCAGCCCTCCTT
GCTCGGCCGCAAGATTCTGGCCGCCATCATTATGAAAAAGACTCTGAGGACATGGGTGTGCTGCTCAGCTTGGG
AACAGGGAATCGCTGTGTGAAAGGAGATTCTCTCAGCCTAAAAGGAGAACTGTCAATGACTGCCATGCAGAAAT
AATCTCCCGGAGAGGCTTCATCAGGTTTCTCTACAGTGAGTTAATGAAATACAACCTCCAGACTGCGAAGGATAG
TATATTTGAACCTGCTAAGGGAGGAGAAAAGCTCCAAATAAAAAAGACTGTGTCAATCCATCTGTATATCAGCAC
TGCTCCGTGTGGAGATGGCGCCCTCTTTGACAAGTCTGCAGCGACCGTGCTATGGAAAGCACAGAATCCCGCCA
CTACCCTGTCTTCGAGAATCCCAACAAGGAAAGCTCCGCACCAAGGTGGAGAACGGAGAAGGCACAATCCCTGT
GGAATCCAGTGACATTGTGCCTACGTGGGATGGCATTCCGGCTCGGGGAGAGACTCCGTACCATGTCTGTAGTGA
CAAAATCCTACGCTGGAACGTGCTGGGCCTGCAAGGGGCACTGTTGACCCACTTCTGCAGCCCATTATCTCAA
ATCTGTACATTGGGTTACCTTTTTCAGCCAAGGGCATCTGACCCGTGCTATTTGCTGTGCTGTGACAAGAGATGG
GAGTGCATTTGAGGATGGACTACGACATCCCTTTATTGTCAACCACCCCAAGGTTGGCAGAGTCAGCATATATGA
TTCCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGACCTGGAGAT

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FIGURE 450B

CCTGGACGGTACCAGAGGCACTGTGGATGGGCCACGGAATGAATTGTCCCGGGTCTCCAAAAAGAACATTTTTCT
TCTATTTAAGAAGCTCTGCTCCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTATGGTGAGGCCAAGAAAGC
TGCCCGTGACTACGAGACGGCCAAGAATACTTCAAAAAAGGCCTGAAGGATATGGGCTATGGGAACTGGATTAG
CAAACCCAGGAGGAAAAGAACTTTTATCTCTGCCCAGTATAGTATGCTCCAGTGACAGATGGATTAGGGTGTGT
CATACTAGGGTGTGAGAGAGGTAGGTCGTAGCATTCCCTCATCACATGGTCAGGGGATTTTTTTTTCTCCTTTTTT
TTTCTTTTTAAGCCATAATTGGTGATACTGAAAACCTTGGGTTCCCATTTATCCTGCTTTCTTTGGGATTGCTAG
GCAAGGTCTGGCCAGGCCCCCTTTTTCCCCCAAGTGAAGAGGCAGAAACCTAAGAAGTTATCTTTCTTTCTA
CCCAAAGCATACATAGTCACTGAGCACCTGCGGTCCATTTCCTCTTAAAGTTTTGTTTTGATTGTTCATT
CCTTTCCCTTTGTGTTTGCTACACTGACCTCTTGCGGTCTTGATTAGGTTTCAGTCAACTCTGGATCATGTCAGG
GACTGATAATTTCAATTTGTGGATTACGCAGACCCCTCTACTTCCCTCTTTCCCTTCTGAGATTCTTCTTGTG
ATCTGAATGTCTCCTTTTCCCCCTCAGAGGGCAAAGAGGTGAACATAAAGGATTTGGTGAAACATTTGTAAGGGT
AGGAGTTGAAAACCTGCAGTTCCCAGTGCCACGGAAGTGTGATTGGAGCCTGCAGATAATGCCAGCCATCCTCCC
ATCCTGCACTTTAGCCAGCTGCAGGGCGGGCAAAGGCAAGGAAAGCTGCTTCCCTGGAAGTGTATCACTTTCTCCG
GCAGCTGGGAAGTCTAGAACCAGCCAGACTGGGTTAAGGGAGCTGCTCAAGCAATAGCAGAGGTTTCAACCCGGCA
GGATGACACAGACCACTTCCCAGGGAGCACGGGCATGCCTTGGAATATTGCCAAGCTTCCAGCTGCCTCTTCTCC
TAAAGCATTCCTAGGAATATTTTTCCCCGCCAATGCTGGGCGTACACCCTAGCCAACGGGACAAATCCTAGAGGGT
ATAAAATCATCTCTGCTCAGATAATCATGACTTAGCAAGAATAAGGGCAAAAAATCCTGTTGGCTTAACGTCCT
GTTCCACCCGGTGTAATATCTCTCATGACAGTGACACCAAGGGAAGTTGACTAAGTCACATGTAAATTAGGAGTG
TTTTAAAGAATGCCATAGATGTTGATTCTTAAGTGTACAGATAACCTGTAATTGAGCAGATTTAAATTCAGGC
ATACTTTTCCATTTATCCAAGTGCTTTCAATTTTCCAGATGGCTTCAAGTAGGCTCGTGGGCAGGGCGCAGAC
CTGATCTTTATAGGGTTGACATAGAAAGCAGTAGTTGTGGGTGAAAGGGCAGGTTGTCTTCAAACCTCTGTGAGGT
AGAATCCTTTGTCTATACCTCCATGAACATTGACTCGTGTGTTTCAAGCCTTTGGCCTCTCTGTGGAGTCTGGCT
CTCTGGCTCCTGTGCATTCTTTGAATAGTCACTCGTAAAACTGTCAAGTGTGAACTGTTTCTTTACTCATG
TTGAAGGGACTTTGTTGGCTTTTAGAGTGTGGTCACTGACTCCAAGAGCAGAGCAGGGAAGAGCCCAAGCATAGA
CTTGGTGCCGTGGTGATGGCTGCAGTCCAGTTTTGTGATGCTGCTTTTACGTGTCCCTCGATAACAGTCAGCTAG
ACACACTCAGGAGGACTACTGAGGCTCTGCGACCTTCAAGGAGCTGAGCCTGCCTCTCTCCTTTAGATGACAGACC
TTCATCTGGGAACGTGCTGAGCCAGCACCCCTCAGATGATTTCCCTCCAACTGCTGACTAGGTATCCTCTGTCT
GGTAGAGACATTCACATCTTTGCTTTTATTCTATGCTCTCTGTACTTTTGACCAAAAATTGACCAAGTAAGAAA
ATGCAAGTTCTAAAAATAGACTAAGGATGCCTTTGCAGAACACCAAGCATCCCAAGGAACTGGTAGGGAAGTGG
CGCTGTCTCCTGGAGTGGAAGAGGCCTGCTCCCTGGCTCTGGGTCTGCTGGGGGCACAGTAAATCAGTCTTGGC
ACCCACATCCAGGGCAGAGAGGTCTGTGGTTCTCAGCATCAGAAGGCAGCGCAGCCCTCTCCTCTTCAAGGCTAC
AGGGTGTACCTGCTGAGTCTCAGGTTGTTTGGCCTCTCTGGTCCATCTTGGGCATTAGGTTCTCCAGCAGAG
CTCTGGCCAGCTGCCTCTTCTTTAACTGGGAACACAGGCTCTCACAAGATCAGAACCCCCACTCACCCCAAGAT
CTTATCTAGCAAGCCTGTAGTATTAGTTTCTGTTGTAGGAAGAGAGCGAGGCATCCCTGAATTCCACGCATCTG
CTGGAACGAGCCGTGTCAGATCGCACATCCCTGCGCCCCCATGCCCTCTGAGTCACACAGGACAGAGGAGGCA
GAGCTTCTGCCCAGTGTATCTTCACTTTCTTTGTCCAGTCTTTTGTTTTAAATAAGCAGTGACCCTCCCTACTC
TTCTTTTAAATGATTTTTGTAGTTGATTGTCTGAACTGTGGCTACTGTGCATTCTTGAATAATCACTTGTA
AATTGTGAGTGTGTAAGCTGTTTCTTTACTCACATTGAAGGGACTTCGTTGGTTTTTTGGAGTCTTGGTTGTG
ACTCCAAGAGCAGAGTGAGGAAGACCCCAAGCATAGACTCGGGTACTGTGATGATGGCTGCAGTCCAGTTTTAT
GATTCTGCTTTTATGTGTCCCTTGATAACAGTGACTTAACAATATACATTCCTCATAAATAAAAAAACAAGA
ATCTGAATCTT

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FIGURE 451

GAGCCAGCGAGGAGTGAAGCTGAGCCTGGCCTCACACGCTCCTAGAGGACCACCTCCTGAGAGAGTTCTTTCACC
CCCTCTTCTTTTCTCCAAGCTCCCCCTCTGCTCTCCCTCCCTGCCCAATACAATGCATTCTTGAGTGGCAGCGTCT
GGACTCCAGGCAGCCCCAGAGAACC GAAGCAAGCCAAAGAGAGGACTGGAGCCAAGATACTGGTGGGGGAGATTG
GATGCCTGGCTTTTCTTTGAGGACATCTTTGGAGCGAGGGTGGCTTTGGGGTGGGGGCTTGTGCTGCAGGGAATAC
AGCCAGGCCCCAAGATGGACACTTCTGGGCACTTCCATGACTCGGGGGTGGGGGACTTGGATGAAGACCCCAAGT
GCCCCTGTCCATCCTCTGGGGATGAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCCACCACCGCCAG
CGCACCAGCAGCCCCCAGCAGCCCCCTGGGACCCTCGCTGCAGCCTCAGCCTCCGCAGCTTCAGCAGCAGCAGC
AGCAGCAGCAGCAGCAGCAGCAGCAGCAGCCACCGCATCCCCTGTCTCAGCTCGCCCAACTCCAGAGCCAGCCCG
TCCACCCTGGCCTGCTGCACTCCTCTCCCACCGCTTTCAGGGCCCCCCTTCGTCCAACCTCCACCGCCATCCTCC
ACCCTTCTCTCCAGGCAAGGCAGCCAGCTCAATCTCAATGACCACCTTGCTTGGCCACTCTCCAAGTTCACAGCTA
CAAGTGGGCCTGGCGGAGGCAGCCGGCACCAGAGCCAGCCCCCTGGTGCACCGGCGGGACAGCAACCCCTTCA
CGGAGATCGCCATGAGCTCCTGCAAGTATAGCGGTGGGGTTCATGAAGCCCCCTCAGCCGCCTCAGCGCCTCCCGGA
GGAACCTCATCGAGGCCGAGACTGAGGGCCAACCCCTCAGCTTTTTCAGCCCTAGCAACCCCCCGGAGATCGTCA
TCTCCTCCCGGGAGGACAACCATGCCCCACCAGACCCTGCTCCATCACCTAATGCCACCCACAACCACCAGCATG
CCGGCACCACCGCCAGCAGCACCACCTTCCCCAAAGCCAACAAGCGGAAAAACCAAAACATTGGCTATAAGCTGG
GACACAGGAGGGCCCTGTTTGAAAAGAGAAAGCGACTGAGTGACTATGCTCTGATTTTGGGATGTTTGGAATTG
TTGTTATGGTGATAGAGACCGAGCTCTCTTGGGGTTTGTACTCAAAGGACTCCATGTTTTCGTTGGCCCTGAAAT
GCCTTATCAGTCTGTCCACCATCATCCTTTTGGGCTTGATCATCGCCTACCACACACGTGAAGTCCAGCTCTTCG
TGATCGACAATGGCGCGGATGACTGGCGGATAGCCATGACCTACGAGCGCATCCTGTACATCAGCCTGGAGATGC
TGGTGTGCGCCATCCACCCCATTCCTGGCGAGTACAAGTTCTTCTGGACGGCACGCCTGGCCTTCTCCTACACAC
CCTCCCGGGCGGAGGCCGATGTGGACATCATCCTGTCTATCCCCATGTTCTTCTGCGCCTGTACCTGATCGCCCGAG
TCATGCTGCTGCACAGCAAGCTCTTACCGATGCCTCGTCCCGCAGCATCGGGGCCCTCAACAAGATCAACTTCA
ACACCCGCTTTGTTCATGAAGACGCTCATGACCATCTGCCCTGGCACTGTGCTGCTCGTGTTCAGCATCTCTCTGT
GGATCATTGCTGCCTGGACCGTCCGTGTCTGTGAAAGGTACCATGACCAGCAGGACGTAAGTAGTAACCTTTCTGG
GTGCCATGTGGCTCATCTCCATCACATTCCCTTTCCATTGGTTATGGGGACATGGTGGCCACACATACTGTGGGA
AAGGTGTCTGTCTCCTCACTGGCATCATGGGTGCAGGCTGCACTGCCCTTGTGGTGGCCGTGGTGGCCCGAAAGC
TGGAATCACCAAAGCGGAGAAGCACGTTTATAACTTCATGATGGACACTCAGCTCACCAAGCGGATCAAGAATG
CTGCAGCCAATGTCTTTCGGGAAACATGGTTAATCTATAAACACACAAAGCTGCTAAAGAAGATTGACCATGCCA
AAGTGAGGAAACACCAGAGGAAGTTCTTCCAAGCTATCCACCAGTTGAGGAGCGTCAAGATGGAACAGAGGAAGC
TGAGTGACCAAGCCAACACTCTGGTGGACCTTTCCAAGATGCAGAATGTCATGTATGACTTAATCACAGAACTCA
ATGACCGGAGCGAAGACCTGGAGAAGCAGATTGGCAGCCTGGAGTCAAGCTGGAGCATCTCACCAGCCAGCTTCA
ACTCCCTGCCGCTGCTCATCGCCGACACCCTGCGCCAGCAGCAGCAGCAGCTCCTGTCTGCCATCATCGAGGCC
GGGGTGTGAGCGTGGCAGTGGGCACCACCCACACCCCAATCTCCGATAGCCCCATTGGGGTCACTCCACCTCCT
TCCCGACCCCGTACACAAGTTCAAGCAGTTGCTAAATAAATCTCCCCACTCCAGAAGCATTACCCATAGGTCTTA
AGATGCAAATCAACTCTCTCCTGGTCTGCTTTGCCATCAAGAAACATTCAGACCAGGGAACGGAAAGAAGAGAGAC
CGAGCTAATTAATAACTCATGTTTATTAGCGTGCTTGGTCCGACATGCCTTGAAACCAGAAATCTAATCTCTG
TTTAGGTGCTCTACTTGGGAGCGGGAAGAGGAGATGACAGGAAGCGACGCCTCTGGCAGGGCCCTTGCTGCAGA
GTTGGTGGAGAACAGAAATCCACGCTCAATCTCAGGTCTTACGCGGGGGGTGGGGGTGAGATGCACTGAAGTAG
CCAACAGCGAAGCCAGTCCAGAAGAGGGGTCCGCTGGGAGGGAGGGTTGTGTGTCAGGCTTGGGGGATGGGCTCTTC
GCCATGGGGGTCTTTGAACACACCTCTCTCTTTTCTTTTGTCTACGGAAGCCTCTGGGTGACAAAAGTAAAAGA
GAGCTGCCCCAACCTTGCCAAAACAGATATACTCGAATCAGACTGAAAAA

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FIGURE 452

GAAGGTTCTGGGCGGGGCTGGACTGTTCTAAGTGAGTTCGGGTGGGGGAGCTTCACGAGGGGAGGCTGCTCTGTG
AAGGAACCGCCTTTCTCTCCGCGTGTCTCACCCCTTTCTCCCCATATCTGTTTGACATGAGCTGAGGGCACGGT
CGCGGGCGGTTCAGCCCTGTTTCGCAGCTACGGCGAGGAGGGGCGCGATTGTTTCCTTGTTGCCGCTCCGCTTAGTGG
CCGCGTCCATTCCGCGCGGTGTCCCGATTTTAGGGGTAGGGAGAAAGTGTTCAGCTTCAGGCATCGCGAGGCGTGGC
GGCCCCATGGGCCCCGCTGGGAGGCGCCCCGCGGCTGGTACTGCTGTTTCAGCGGCAAGAGGAAATCCGGGAAGGAC
TTCGTGACCGAGGCGCTGCAGAGCAGACTTGGAGCTGATGTCTGTGCTGTCTCCGGCTCTCTGGTCCACTCAAG
GAACAGTATGCTCAGGAGCATGGCTTGAACCTCCAGAGACTCCTGGACACCAGCACCTACAAGGAGGCCTTTCCG
AAGGACATGATCCGCTGGGGAGAGGAGAAACGCCAGGCTGACCCAGGCTTCTTTTGCAGGAAGATTGTGGAGGGC
ATCTCCAGCCCATCTGGCTGGTGAGTGACACACGGAGAGTGTCTGACATCCAGTGGTTTTCGGGAGGCCTATGGG
GCCGTGACGCAGACGGTCCGCGTTGTAGCGTTGGAGCAGAGCCGACAGCAGCGGGGCTGGGTGTTACGCCAGGG
GTGGACGATGCTGAGTCAGAAATGTGGCCTGGACAACCTTCGGGGACTTTGACTGGGTTCATCGAGAACCATGGAGTT
GAACAGCGCCTGGAGGAGCAGTTGGAGAACCTGATAGAAATTTATCCGCTCCAGACTTTTAGTCACTAGGTTCTAGG
AGTGAGCTGGGGCCTGCTGAGGTGGGGGTGGGGCTGACTCTGCAAAATGGGGGTGTCCCCGATCCTGGCCGAGG
TGAGGAACAGACAGGGGGGGTCTAGATTCTGAGGGGGTTGGTGATATTGGGCAAGGCAGGAAACCTCTGGAGAC
CTCATTTTCTCCATGGGGAAGACAGCCATGCTCTTCAGGAGGAGACTCCAAGGGCAAAGGAGGGTGTCTTGGCTG
TGCTTGAAGGCGAAACCCTGCCATATCCCCAGTGCCAGTCCCCCTCAGCCTGTGGTGGCCTTGCATCCTGACTGGA
TGTTCAGCCCCCTTGTCTGGGCAAGAACCCAGAGCTCCCCAGTGTGGATACTAATAAACCTCTTGGAGCACAC
TCTCAAAACAACCTCGGG

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FIGURE 453

MAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRLSGPLKEQYAEHGLNFQRLLDSTYKEAFRKD
MIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDDRVSIDIQWFREAYGAVTQTVRVVALEQSRQQRGWVFTPGVD
DAESECGLDNFGDFDWVIENHGVEQRLEEQLLENLIEFIRSRL

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FIGURE 454

ATGGGGCCTGAAACTGTCTGGGTCTGAGCTGGGGAGCGGAAGCCACTTGTCCCTCTCCCTCCCCAGGACTTCTGT
GACTCCTGGGCCACAGAGGTCCAACCAGGCTAAGGGCCTGGGGATACCCCTGCCTGGCCCCCTTGCCCCAACTG
GCAGGGGGGCCAGGCTGGGCAGCAGCCCCCTCTTTCACCTCAACTATGGATCTCCTGCCCCCAAGCCCAAGTACA
ATCCACTCCGGAATGAGTCTCTGTCTCGCTGGAGGAAGGGGCTTCTGGGTCCACCCCCCGGAGGAGCTGCCTT
CCCCATCAGCTTCATCCCTGGGGCCCATCCTGCCTCCTCTGCCTGGGGACGATAGTCCCACTACCCTGTGCTCCT
TCTTCCCCCGGATGAGCAACCTGAGGCTGGCCAACCCGGCTGGGGGGCGCCAGGGTCTAAGGGGGAGCCAGGAA
GGGCAGCTGATGATGGGGAGGGGATCGTAGGGGCAGCCATGCCAGACTCAGGCCCCCTACCCCTCCTCCAGGACA
TGAACAAGCTGAGTGGAGGCGGCGGGCGCAGGACTCGGGTGAAGGGGGCCAGCTTGGGGGCGAGGAGTGGACCC
GCCACGGGAGCTTTGTCAATAAGCCCACGCGGGGCTGGCTGCATCCCAACGACAAAGTCATGGGACCCGGGGTTT
CCTACTTGGTTCCGTACATGGGTTGTGTGGAGGTCTCCAGTCAATGCGTGCCTTGGACTTCAACACCCGGACTC
AGGTCAACAGGGAGGCCATCAGTCTGGTGTGTGAGGCTGTGCCGGGTGCTAAGGGGGCGACAAGGAGGAGAAAGC
CCTGTAGCCGCCCCGCTCAGCTCTATCCTGGGGAGGAGTAACCTGAAATTTGCTGGAATGCCAATCACTCTCACCG
TCTCCACCAGCAGCCTCAACCTCATGGCCGAGACTGCAACAGATCATCGCCAACCACCACATGCAATCTATCT
CATTTGCATCCGGCGGGGATCCGGACACAGCCGAGTATGTCGCCTATGTTGCCAAAGACCCTGTGAATCAGAGAG
CCTGCCACATTCTGGAGTGTCCCGAAGGGCTTGCCAGGATGTCATCAGCACCATTGGCCAGGCCCTTCGAGTTGC
GCTTCAAACAATACTCAGGAACCCACCCAACTGGTCACCCCTCATGACAGGATGGCTGGCTTTGATGGCTCAG
CATGGGATGAGGAGGAGGAAGAGCCACCTGACCATCAGTACTATAATGACTTCCCGGGGAAGGAACCCCTTGG
GGGGGTGGTAGACATGAGGCTTCGGGAAGGAGCCGCTCCAGGGGCTGCTCGACCCACTGCACCCAATGCCCAGA
CCCCAGCCACTTGGGAGCTACATTGCTGTAGGACAGCCTGTTGGGGGAGATCCAGAAGTCCGCAAACAGATGC
CACCTCCACCACCCTGTCCAGGCAGAGAGCTTTTTGATGATCCCTCCTATGTCAACGTCCAGAACCTAGACAAGG
CCCGGAAGCAGTGGGTGGTGTCTGGGCCCCCAATCCTGCTATCAATGGCAGTGCACCCCGGGACCTGTTTGACA
TGAAGCCCTTCGAAGATGCTCTTCGCGTGCCTCCACCTCCCAGTCGGTGTCCATGGCTGAGCAGCTCCGAGGGG
AGCCCTGGTTCCATGGGAAGCTGAGCCGGCGGGAGGCTGAGGCACTGCTGCAGCTCAATGGGGACTTCCTGGTAC
GGGAGAGCAGCACCACACCTGGCCAGTATGTGCTCACTGGCTTGAGAGTGGGCAGCCTAAGCATTGTCTACTGG
TGGACCCTGAGGGTGTGGTTCCGACTAAGGATCACCGCTTTGAAAGTGTGAGTCACTTATCAGCTACCACATGG
ACAATCACTTGGCCATCATCTCTGCGGGCAGCGAACTGTGTCTACAGCAACCTGTGGAGCGGAACTGTGATCTG
CCCTAGCGCTCTCTTCCAGAAGATGCCCTCCAATCCTTTCCACCCTATTCCCTAACTCTCGGGACCTCGTTTGGG
AGTGTCTGTGGGCTTGCCCTTGTGTGAGAGCTGGGAGTAGCATGGACTCTGGGTTTCATATCCAGCTGAGTGAG
AGGGTTTGAGTCAAAAGCCTGGGTGAGAATCCTGCCTCTCCCCAAACATTAATCACCAGTATTAATGTACAGA
GTGGCCCTCACCTGGGCCTTCTCTGTGCCAACCTGATGCCCTTCCCCAAGAAGGTGAGTGTCTGTATGGAAA
ATGTCTGTGGTGACAGGCCCAGTGAACAGTCACCCTTCTGGGCAAGGGGGAACAAATCACACCTCTGGGCTTC
AGGGTATCCCAGACCCCTCTCAACACCCGCCCCCCCCATGTTTAACTTTGTGCCTTTGACCATCTCTTAGGTCT
AATGATATTTTATGCAAACAGTTCTTGACCCCTGAATTCAATGACAGGGATGCCAACACCTTCTTGGCTTCTGG
GACCTGTGTTCTTGCTGAGCACCTCTCCGGTTTGGGTGGGATAACAGAGGCAGGAGTGGCAGCTGTCCCCTCT
CCCTGGGGATATGCAACCCTTAGAGATTGCCCCAGAGCCCCACTCCCGGCCAGGCGGGAGATGGACCCCTCCCTT
GCTCAGTGCCTCCTGGCCGGGGCCCCCTACCCCCAAGGGGTCTGTATATACATTTTATAAGGCCTGCCCTCCCATG
TTGCATGCCTATGTACTCTACGCCAAAGTGCAGCCCTTCTCCTGAAGCCTCTGCCCTGCCCTCCCTTTCTGGGAG
GGCGGGGTGGGGGTGACTGAATTTGGGCCTCTTGTACAGTTAACTCTCCAGGTGGATTTTGTGGAGGTGAGAAA
AGGGGCATTGAGACTATAAAGCAGTAGACAATCCCCACATACCATCTGTAGAGTTGGAAGTGCATTCTTTTAAAG
TTTTATATGCATATATTTTAGGGCTGTAGACTTACTTTTCTTTTCTTTTCCATTGCTTATTCTTGAGCACAAA
ATGATAATCAATTATTACATTTATACATCACCTTTTTGACTTTTCCAAGCCCTTTTACAGCTCTTGGCATTTTCC
TCGCCTAGGCCTGTGAGGTAACTGGGATCGCACCTTTTATACCAGAGACCTGAGGCAGATGAAATTTATTTCCAT
CTAGGACTAGAAAACTTGGGTCTCTTACC GCGAGACTGAGAGGCAGAAGTCAGCCCGAATGCCTGTGAGTTTCA
TGGAGGGGAAACGCAAAACCTGCAGTTCTTGAGTACCTTCTACAGGCCCGGCCAGCCTAGGCCCGGGGTGGCCA
CACCACAGCAAGCCGGCCCCCCCCCTCTTTTGGCCTTGTGGATAAGGGAGAGTTGACCGTTTTCATCCTGGCCTCCT
TTTGCTGTTTGGATGTTTCCACGGGTCTCACTTATACCAAAGGGAAAACCTTTCATTAAAGTCCGTATTTCTTCT

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FIGURE 455

GAAAGAGCCGGTGAAGGGGCAGAACAGGÇAGGTTCCCTCGACCCAGGACCCCCCTGTTCCCAGGCTATGGCCCCCA
GTGCCCTGTAGACCTGGCAGGCCCCCGTGCTTGCAGCCCCTATTTGGGGGTCTGGGTGGCTACTGGAGGGCCTT
GCAGAGGGGCAGAGAAGGCAGGACCATGACATCTAGGGCCTCTGAACTTTCTCCGGGGCGCAGCGTGACGGCTGG
CATCATCATTGTTGGAGATGAGATCCTTAAGTTGGAACAACAAATGGCTTTTGAGTCCAAGAGTGATGCAATCA
CAGTGACGCATTAAAACGGTTACTCCGGAGACATCAGAGCACTGTGGCTGGAGGCTGGGAGCCTGGCCAGGAAGC
TGTCGCCATTGTCCAGGTGAAAGGTGCTAAGGACCTGCTTGGTGGCAGTGGGGACAGAAAGAAGAAAGCAGGCCA
GGCGTGGTGGCTCACACCTATAATTCCAGCACTTTGGGAGGCTGAGGCAGGAGGATCACTTGAGACCAGGAATTC
AACACCAGCCTGGGCAACATGGCAAGACCCCCATTTCTACAAAAAAATTTAAAATGAGCTGAATGTGGTGGCAGC
CGCTGTAGTCCCAGCTACTCGGAAGGCTGGGGTGGCCCTTGAAGCCAGGAGGTTGAGGCTGCAGTGAAGTGTGA
CTGAGCCACTATACTCCAGCCTGGGTGACAGAGACCCAGCTTTAAACCAAACAAATGGATTTTCCCACTCTTGT
GTCCAGTCCAGGCCCCCTCAGCAGCCTGAGGTGGTGTCTTCAAAGAGCAGAGCACTGCATCATCAGGTGGATGCA
GCCATCATCTTCAACCCCTCCCTTCATCCCTACAGTACTGATGGCCTCATCTTCCCTTCAACCCCCAGGGACA
CACTCAGGACACCAACACCTTCTTTCTGTGCCGGACACTGCGTCCCTAGGGGTCCAGGTTTGCCGAGTCTCAGT
TGTACCTGATGAGGTAGCACCATTGCAGCTGAGGTCACTTCTTTCTCCAACCGCTTCACCCATGTCTCTCACAGC
AGGGGGCATCGGCCCCACTCATGATGATGTGACCTTTGAGGCAGTGGCACAGGCCTTTGGAGATGAGCTGAAGCC
ACACCCCAAGTTGGAAGCAGCCACCAAAGCCCTAGGAGGGGAAGGCTGGGAGAAGCTATCATTGGTGCCCTCCTC
TGCCCGCCTGCATTATGGCACAGATCCTTGCACTGGTCAACCTTTGAGATTCCCTCTGGTCTCCGTCCGAAACGT
CTACCTCTTCCCAGGCATTCCAGAGCTGCTGCGGCGGGTGCTGGAGGGGATGAAGGGACTATTCCAAAACCCAGC
TGTTCAGTTCCACTCAAAGGAGCTATATGTGGCTGCTGATGAAGCCTCCATCGCCCCATTCTGGCTGAGGCCCA
GGCCCACTTTGGACGTAGGCTTGGCCTGGGTTTCTACCTGACTGGGGCAGCAACTACTATCAGGTGAAGCTGAC
TCTAGACTCAGAGGAAGAAGGACCCCTGGAGGAATGCTTGGCCTACCTGACTGCCCCTTTGCCCCAGGGATCGCT
GGTCCCCTACATGCCCAACGCTGTGGAGCAGGCCAGTGAGGCTGTATACAACTCGCTGAATCAGGTAGGGACCT
TATGGAGGAGGGGCATTATGCCCAAAGCCATTGGTGGCACCCAGATCTCAGTAATGCAGGGGCTGTTGGGTGCT
TCCTGCAAAATCCCTGAGAGGGCAGAAGATAGCTTCTGTAAATTCATTATTCTTCCAATAAATGTTGATTGAGTAC
CTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 456

MQPSSSTPPLHPYSTDGLIFPFNPQGHTQDTNTFFLCRTLRLSLGVQVCRVSVVPDEVATIAAEVTSFSNRFTHL
TAGGIGPTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLVPSSARLHYGTDPC TGQPFRFPLVSVR
NVYLFPGIPELLRRVLEGMKGLFQNPVQFHSKELYVADEASIAPILAEQAHFGRRLGLGSYPDWGSNYYQVK
LTLDSEEEGPLEECLAYLTARLPQGS LVPYMPNAVEQASEAVYKLAESGRDLMEEGHYAQSHWWHPRSQ

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FIGURE 457

CGCTGCCATGCGGCTGGCGCTGCTCTGGGCCCTGGGGCTCCTGGGCGCGGGCAGCCCTCTGCCTTCCTGGCCGCT
CCCAATATAGGTGGCACTGAGGAGCAGCAGGCAGAGTCAGAGAAGGCCCGAGGGAGCCCTTGAGCCCCAGGT
CCTTCAGGACGATCTCCCAATTAGCCTCAAAAAGGTGCTTCAGACCAGTCTGCCTGAGCCCTGAGGATCAAGTT
GGAGCTGGACGGTGACAGTCATATCCTGGAGCTGCTACAGAATAGGGAGTTGGTCCCAGGCCGCCAACCTGGT
GTGGTACCAGCCCCGATGGCACTCGGGTGGTCAGTGAGGGACACACTTTGGAGAACTGCTGCTACCAGGGAAGAGT
GCGGGGATATGCAGGCTCCTGGGTGTCCATCTGCACCTGCTCTGGGCTCAGAGGCTTGGTGGTCTGACCCGAGA
GAGAAGCTATACCCTGGAGCAGGGGCCCTGGGGACCTTCAGGGTCTCTCCATTATTTGCGGAATCCAAGATCTCCA
CCTGCCAGGCCACACCTGTGCCCTGAGCTGGCGGGAATCTGTACACACTCAGACGCCACCAGAGCACCCCTGGG
ACAGCGCCACATTGCGCGGAGGCGGGATGTGGTAACAGAGACCAAGACTGTGGAGTTGGTGATTGTGGCTGATCA
CTCGGAGGCCCAGAAATACCGGGACTTCCAGCACCTGCTAAACCGCACACTGGAAGTGGCCCTCTTGCTGGACAC
ATTCTTCCGGCCCTGAATGTACGAGTGGCACTAGTGGGCCTGGAGGCCTGGACCCAGCGTGACCTGGTGGAGAT
CAGCCCAAACCCAGCTGTCACCCTCGAAAACCTTCTCCACTGGCGCAGGGCACATTTGCTGCCCTCGATTGCCCCA
TGACAGTGCCAGCTGGTGACTGGTACTTCATTCTCTGGGCCTACGGTGGGCATGGCCATTGAGAACTCCATCTG
TTCTCTGACTTCTCAGGAGGTGTGAACATGGACCACTCCACCAGCATCCTGGGAGTCGCCCTCTCCATAGCCCA
TGAGTTGGGCCACAGCCTGGGCCTGGACCATGATTTGCCTGGGAATAGCTGCCCCGTGCCAGGTCCAGCCCCAGC
CAAGACCTGCATCATGGAGGCCTCCACAGACTTCTACCAGGCCTGAACTTCAGCAACTGCAGCCGACGGGCCCT
GGAGAAAGCCCTCCTGGATGGAATGGGCAGCTGCCTCTTCGAACGGCTGCCTAGCCTACCCCTATGGCTGCTTT
CTGCGGAAATATGTTTGTGGAGCCGGGCGAGCAGTGTGACTGTGGCTTCTTGATGACTGCGTCGATCCCTGCTG
TGATTCTTTGACCTGCCAGCTGAGGCCAGGTGCACAGTGTGCATCTGACGGACCTGTTGTCAAAATTGCCAGCT
GCGCCCGTCTGGCTGGCAGTGTGCTCTACCAGAGGGGATTGTGACTTGCTGAATTCTGCCAGGAGACAGCTC
CCAGTGTCCCCCTGATGTACGCTAGGGGATGGCGAGCCCTGCGCTGGCGGGCAAGCTGTGTGCATGCACGGGCG
TTGTGCCTCCTATGCCAGCAGTGCCAGTCACTTTGGGGACCTGGAGCCCAGCCCGCTGCGCCACTTTGCCTCCA
GACAGCTAATACTCGGGGAAATGCTTTTGGGAGCTGTGGGCGCAACCCCAAGTGGCAGTTATGTGTCTGCACCC
TAGAGATGCCATTTGTGGGCAGCTCCAGTGCCAGACAGGTAGGACCCAGCCTCTGCTGGGCTCCATCCGGGATCT
ACTCTGGGAGACAATAGATGTGAATGGGACTGAGCTGAACTGCAGCTGGGTGCACCTGGACCTGGGCAGTGATGT
GGCCAGCCCCCTCCTGACTCTGCCTGGCACAGCCTGTGGCCCTGGCCTGGTGTGTATAGACCATCGATGCCAGCG
TGTGGATCTCCTGGGGGCACAGGAATGTGCAAGCAAATGCCATGGACATGGGGTCTGTGACAGCAACAGGCACTG
CTACTGTGAGGAGGGCTGGGCACCCCTGACTGCACCACTCAGCTCAAAGCAACCAGCTCCCTGACCACAGGGCT
GCTCCTCAGCCTCCTGGTCTTATTGGTCTGGTGATGCTTGGTGCCGGCTACTGGTACCGTGCCCGCTGCACCA
GCGACTCTGCCAGCTCAAGGGACCCACCTGCCAGTACAGGGCAGCCCAATCTGGTCCCTCTGAACGGCCAGGACC
TCCGCAGAGGGCCCTGCTGGCACGAGGCACTAAGTCTCAGGGGCCAGCCAAGCCCCACCCCAAGGAAGCCACT
GCCTGCCGACCCCCAGGGCCGGTGGCCATCGGGTGACCTGCCCGGCCAGGGGCTGGAATCCCGCCCTAGTGGT
ACCCCTCAGACCAGCGCCACCGCTCCGACAGTGTCTCGCTCTACCTCTGACCTCTCCGGAGGTTCGCTGCCT
CCAAGCCGGACTTAGGGCTTCAAGAGGCGGGCGTGCCCTCTGGAGTCCCCTACCATGACTGAAGGCGCCAGAGAC
TGGCGGTGTCTTAAGACTCCGGGCACCGCCACGCGCTGTCAAGCAACACTCTGCGGACCTGCCGGCGTAGTTGCA
GCGGGGGCTTGGGGAGGGGCTGGGGTTGGACGGGATTGAGGAAGGTCCGCACAGCCTGTCTCTGCTCAGTTGCA
ATAAACGTGACATCTTGGGAGCGTTAAAAAAAAAAAAA

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FIGURE 458

MRLALLWALGLLGAGSPLPSWPLPNIGGTEEQAESEKAPREPLEPQVLQDDLPISLKKVLQTSLEPLRIKLEL
DGDSHILELLQNRELVPGRFTLVWYQPDGTRVVSEGHTLENCCYQGRVIRGYAGSWVSICTCSGLRGLVVLTPERS
YTLEQGPGLQGPPIISRIQDLHLPGHTECALSWRESVHTQTPPEHPLGQRHIRRRRDVVTETKTVELVIVADHSE
AQLVTGTSFSGPTVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHELGHSLGLDHDLPGNSCPCPGPAPAKT
CIMEASTDFLPGLNFSNCSRRALEKALLDGMGSCLFERLP SLPPMAAF CGNM FVEPGEQCDCGFLDDCVDPCDS
LTCQLRPGAQCADGPFCCQNCQLRPSGWQCRPTRGDCLPEFCPGDSSQC PPDVSLGDGEP CAGGQAVCMHGRCA
SYAQQCQSLWGPGAQFAAPLCLQTANTRGNAFGSCGRNPSGSYVSCTPRDAICGQLQCQTGRTPQLLGSIRDLLW
ETIDVNGTELNC SWVHLDIGSDVAQPLLTLPGTACGPGLV CIDHRCQRVDLLGAQECSRKCHGHGVCD SNRHCYC
EEGWAPPDCTTQLKATSSLTTGLLLSLLVLLVLM LGAGYWYRRLHQRLCQLKGPTCQYRAAQSGP SERPGPPQ
RALLARGTKSQGPAKPPPPRKPLPADPQGRCPSGDLPGPGAGIPPLVVPSRPAPPPPTVSSLYL

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FIGURE 459

CGACTTTCCCGATCGCCAGGCAGGAGTTTCTCTCGGTGACTACTATCGCTGTCATGTCTGGTCGTGGCAAGCAAG
GAGGCAAGGCCCCGCGCCAAGGCCAAGTCGCGCTCGTCCCGCGCTGGCCTTCAGTTCCCGGTAGGGCGAGTGCATC
GCTTGCTGCGCAAAGGCAACTACGCGGAGCGAGTGGGGGCCGCGCGCCCGTCTACATGGCTGCGGTCCTCGAGT
ATCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCGGCTCGGGACAACAAGAAGACGCGCATCATCCCTCGTC
ACCTCCAGCTGGCCATCCGCAACGACGAGGAAGTGAACAAGCTGCTGGGCAAAGTCACCATCGCCCAGGGCGGCG
TCTTGCTAACATCCAGGCCGTACTGCTCCCTAAGAAGACGGAGAGTCACCACAAGGCAAAGGCAAGTGAGGCT
GACGTCCGGCCCAAGTGGGGCCAGCCCGGCCCGCGTCTCGAAGGGGCACCTGTGAACTCAAAAGGCTCTTTTCAG
AGCCACCCA

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FIGURE 460

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGKVTIAQGGVLPNIQAVLLPKKTESHHKAKGK

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FIGURE 461

CTTTCGCCATGGCTGCCGGGCGGATCTCCGAGCGGAATCAGGATGCCACTGTGTACGTGGGGGGCCTGGATGAGA
AGGTTAGTGAACCGCTGCTGTGGGAACGTGTTTCTCCAGGCTGGACCAGTAGTCAACACCCACATGCCAAAGGATA
GAGTCACTGGCCAGCACCAAGGCTATGGCTTTGTGGAATTCTTGAGTGAGGAAGATGCTGACTATGCCATTAAGA
TCATGAACATGATCAAACTCTATGGGAAGCCAATACGGGTGAACAAAGCATCAGCTCACAACAAAAACCTGGATG
TAGGGGCCAACATTTTCATTGGGAACCTGGACCCTGAGATTGATGAGAAGTTGCTTTATGATACTTTTCAGCGCCT
TTGGGGTCATCTTACAAACCCCCAAAATTATGCGGGACCCTGACACAGGCAACTCCAAAGGTTATGCCTTTATTA
ATTTTGCTTCATTGATGCTTCGGATGCAGCAATTGAAGCCATGAATGGGCAGTACCTCTGTAACCGTCCTATCA
CCGTATCTTATGCCTTCAAGAAGGACTCCAAGGTGAGCGCCATGGCTCAGCAGCCGAACGACTTCTGGCAGCTC
AGAACCCGCTCTCCCAGGCTGATCGCCCTCATCAGCTGTTTGAGATGCACCTCCTCCACCCTCTGCTCCCAATC
CTGTGGTATCATCATTTGGGGTCTGGGCTTCCTCCACCAGGCATGCCTCCTCCTGGCTCCTTCCCACCCCCAGTGC
CACCTCCTGGAGCCCTCCCACCTGGGATACCCCCAGCCATGCCCCACCACCTATGCCTCCTGGGGCTGCAGGAC
ATGGCCCCCATCGGCAGGAACCCAGGGGCAGGACATCCTGGTCATGGACACTCACATCCTCACCCATTCCCAC
CGGGTGGGATGCCCCATCCAGGGATGTCTCAGATGCAGCTTGACACCATGGCCCTCATGGCTTAGGACATCCCC
ACGCTGGACCCCCAGGCTCTGGGGGCCAGCCACCGCCCCGACCACCACCTGGAATGCCTCATCCTGGACCTCCTC
CAATGGGCATGCCCCCGAGGGCCTCCATTTCGGATCTCCCATGGGTACCCAGGTCTATGCCTCCGCATGGTA
TGCGTGGACCTCCTCCACTGATGCCCCCATGGATACACTGGCCCTCCACGACCCCCACCTATGGCTACCAGC
GGGGGCCTCTCCCTCCACCCAGACCCACTCCCCGGCCACCAGTTCCCCCTCGAGGCCCACTTCGAGGCCCTCTCC
CTCAGTAAATTACATTTTCCTTCCTCCTGTTACATTTTCCCAATATCTTTTCTATTCTTGGACCAATCAGAGA
TGCTGTAGCTCCTTGGGGCAAAGGTACTAATCCCTTTCAGCACCCCCACTCCATTCCCCTTTTAAATGTAACCTT
TTCCACAGGAGGTATTTCTTTTTTATGTTGGTCCTGAGTATTTTGAAATGCACAGAGAAAATAAACTAAACTC
CTTGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 462

MAAGPISERNQDATVYVGGGLDEKVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQGYGFVEFLSEEDADYAIKIMN
MIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTFSAFGVILQTPKIMRDPDTGNSKGYAFINFA
SFDASDAAIEAMNGQYLCNRPITVSYAFKKDSKGERHGSAAERLLAAQNPLSQADRPHQLFADAPPPPSAPNPVV
SSLGSGLPMPGMPFPGSFPPVPPPGALPPGIPPAMPPPPMPPGAAGHGPPSAGTPGAGHPGHGHSHPHPFPPGG
MPHPGMSQMLAHHGPHGLGHPHAGPPGSGGQPPRPPPGMPHPGPPPMGMPPRGPPFGSPMGHPGMPPHGMRG
PPPLMPPHGYTGPPRPPFYGYQRGPLPPRPTPRPPVPPRGPLRGPLPQ

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FIGURE 463A

GCCGGGAGCAGTCGCCGCTGCCGCTCCGCCCGCGGCCGGGACCCCGTCTCGCCCGGGACTCCTTACCCGGGG
AACCTAGACCAGGTCTCCAGAGGCTTGTGGAAGAGAAGCAGGCGACCCCTTCCTGAGTTATCCTGGCTTAGCCTCC
CAATCTGGCTCCCCCTTCCCCTTCCCATTCCCCTGCTCCCCCTGTCCCTTCCCCATCCACCCAACTGAACTGGGTA
TAGGTCAAAGCTCCTCTCCTTCCCTTTCCCTTCCCTAGGCACTCATTGGCTAGGACCTGTTTGCTCTTTTTTTTGTG
CCCAGAGATACTGGAACACGCTTCATCTAAGTAACTGTGGGGAGGGGTCTTTTTGACTCTACAAGTCCTTGAGCA
AAAAGCTGAAAAAGAAGCAGGAGGTGGAGAAGACCCAGTGAAGTGCCCCAAGCCCCATCATGGAAGAGGGCTTCC
GAGACCGGGCAGCTTTCATCCGTGGGGCCAAAGACATTGCTAAGGAAGTCAAAAAGCATGCGGCCAAGAAGGTGG
TGAAGGGCCTGGACAGAGTCCAGGACGAATATTCCCGAAGATCGTACTCCCGCTTTGAGGAGGAGGATGATGATG
ATGACTTCCCTGCTCCAGTGATGGTTATTACCGAGGAGAAGGGACCCAGGATGAGGAGGAAGGTGGTGCATCCA
GTGATGCTACTGAGGGCCATGACGAGGATGATGAGATCTATGAAGGGGAATATCAGGGCATTCCCCGGGCAGAGT
CTGGGGGCAAAGGCGAGCGGATGGCAGATGGGGCGCCCTGGCTGGAGTAAGGGGGGGCTTGAGTGATGGGGAGG
GTCCCCCTGGGGGCCGGGGGAGGCACAACGACGGAAGAACGAGAAGAACTGGCCCAACAGTATGAAGCCATCC
TACGGGAGTGTGGCCACGGCCGCTTCCAGTGGACACTGTATTTTGTGCTTGGTCTGGCGCTGATGGCTGACGGTG
TGGAGGTCTTTTGTGGTGGGCTTCGTGCTGCCAGCGCTGAGAAAGACATGTGCCTGTCCGACTCCAACAAAGGCA
TGCTAGGCCTCATCGTCTACCTGGGCATGATGGTGGGAGCCTTCCCTCTGGGGAGGTCTGGCTGACCGGCTGGGT
GGAGGCAGTGCTGCTCATCTCGCTCTCAGTCAACAGCGTCTTCGCCCTTCTTCTCATCTTTTGTCCAGGGTTACG
GCATTTTCTCTTCTGCCGCTACTTTCTGGGGTTGGGATTGGAGGGTCCATCCCCATTGTCTTCTCTATTTCT
CCGAGTTTCTGGCCCAGGAGAAACGAGGGGAGCATTGTAGCTGGCTCTGCATGTTTTGGATGATTGGTGGCGTGT
ACGCAGCTGCTATGGCCTGGGCCATCATCCCCACTATGGGTGGAGTTTTAGATGGGTCTGCCTACCAGTTCC
ACAGCTGGAGGGTCTTCGTCTCGTCTGCGCCTTTCCTTCTGTGTTTGCCATTGGGGCTCTGACCACGCAGCCTG
AGAGCCCCCTTTCTTCTAGAGAATGGAAAGCATGATGAGGCCTGGATGGTGTGAAGCAGGTCCATGATACCA
ACATGCGAGCCAAAGGACATCCTGAGCGAGTGTTCTCAGTAACCCACATTAAGACGATTATCAGGAGGATGAAT
TGATTGAGATCCAGTCGGACACAGGGACCTGGTACCAGCGCTGGGGGGTCCGGGCCCTTGAGCCTAGGGGGGCAGG
TTTGGGGGAATTTTCTCTCCTGTTTTGGTCCCGAATATCGGCGCATCACTCTGATGATGATGGGTGTGTGGTTCA
CCATGTCATTAGCTACTATGGCCTGACCGTCTGGTTTCTGACATGATCCGCCATCTCCAGGCAGTGGACTACG
CATCCCGCACCAAAGTGTTCCCCGGGGAGCGCTAGAGCATGTAACCTTTAACTTACGTTGGAGAATCAGATCC
ACCGAGGCGGGCAGTACTTCAATGACAAGTTCATTGGGCTGCGGCTCAAGTCAGTGTCTTTGAGGATTCCCTGT
TTGAAGAGTGTTATTTTGGAGATGTACATCCAGCAACACGTTTTTCCGCAACTGCACATTATCAACACTGTGT
TCTATAACACTGACCTGTTTCGAGTACAAGTTTGTGAACAGCCGCTGATAAACAGTACATTCTGCACAACAAGG
AGGGCTGCCCCGCTAGACGTGACAGGGACGGGCGAAGGTGCCTACATGGTATACTTTGTGAGCTTCTGGGGACAC
TGGCAGTGCTTCTGGGAATATCGTGTCTGCCCTGCTCATGGACAAGATCGGCAGGCTCAGAATGCTTGCTGGCT
CCAGCGTGATGTCTGTGTCTCTGCTTCTTCTGTCTTTTGGGAACAGTGAGTCGGCCATGATCGCTCTGCTCT
GCCTTTTTTGGCGGGGTGAGCATTGCATCCTGGAATGCGCTGGACGTGTGACTGTTGAACTCTACCCCTCAGACA
AGAGGACCACAGCTTTTGGCTTCTGAATGCCCTGTGTAAGCTGGCAGCTGTGCTGGGGATCAGCATCTTCACAT
CCTTCGTGGGAATCACCAGGCTGCACCCATCCTCTTTGCCCTCAGCTGCCCTTGCCCTTGGCAGCTCTCTGGCCC
TGAAGCTGCCTGAGACCCGGGGGAGGTGCTGCAGTGAAGGGGTCTCTAGGGCTTTGGGATTGGCAGGCACACTG
TGAGACCAACAACCTCCTTCCCTTCCCCTGCCCTGCCATCCTGACCTCCAGAGCCCTCACTCCCCACTCCCCG
TGTTTGGTGTCTTAGCTGTGTGTGCGTGTGCGTGTGCATGTGTGTAAACCCCGTGGGCAGGGACTACAGGGAAGG
CTCCTTCATCCCAGTTTTGAGATGAAGCTGTACTCCCCATTTCCCACTGCCCTTGACTTTGCACAAGAGAAGGCT
GAGCCCCATCCTTCTCCCCCTGTTAGAGAGGGGGCCCTTGCTTCCCTGTTCCAGGGGTTCCAGAATAGGCTTCTG
CCTTCCCCATCATTCCCTCTGCCTAGGCCCTGGTGAAACCACAGGTATGCAATTATGCTAGGGGCTGGGGCTCTG
GTGTAGACCATGGACCAAAAGAACTTCTTAGAGTCTGAAGAGTGGGCCTCGGGTGCCCTCTCACATCTCTGTG
GATGCTGGGGGAGAAGCAATAAACCTCAGCCCTCTGGCCTCCACTTTCCTCTCAATTTGGGCTGCAATATGAAG
CCTGAATTTTATGAAATTAGCTTTCTGATTCTTATTTATTAATAGATTAAGTTCTGAGGCAGCTCCGCAGGACTG
TGTGTGAATGTGTATGTATACTTACATATGTGTGTGCATGTGCCATGGGGCGGGGGGTATCACTATACTGTCTC
AAATATAAGCCAAGGGTAATTTTACGCGGATGCACACACAACCTGCCTCCCACAGTTTCTCCCCTAATCTGGTTT
CTGTGTTGAGCCTGGGATGGAGGAGCCCTAGGCCAGCCTGGGATAAGAGTCCCACAGTCTAGGGAGATCTGAGGG
CATCCGACAAGGCCATCTCCTTCCCTCCTCAAGAAGCAGAGGCCCTCTCTGGAGTGAGAGGCTCCACCCACTAC

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FIGURE 463B

AGCACAGGCGGGAATAGCACAGCTGCCCTCCCATGCTCCCTACCTGTCCCCTCACAGGGAGGGGAGCAGGGGAGG
GAAAGAAACCAGGCATCTGGTCAAACCAGCAGATCAAAAAGCACAAAGAGCTGGGGCAGAGGCAGGAAGCAGGGG
CCCTCCTGGCAGCTCCTCTGAGTGGGGAGAGGTTGGGCAGTGAGTGAGGGACCCCTAATGCAGGGACTAGAAGCC
TCAGTTTCCCCATTTTACCCTTCCACACAATAGCCTCTGTAGGTTAGGCTGCCCCATCCCACCCTACTCTGTGTG
GCTGCTTTCTTTGGTGCCCTCCCCTCACCCCACTGTAGCTGTGACGTGTTGTAGTTTTTAGATGTTTGTAAGT
TTTAAAAAATGTTAAAAGGAAAAAAGTGAAAATAACAAAAAAGAAAATCAAAATTCACCTTCGTCATGCTGCGT
CCAGTGCCCCAACCTGTGGTCACTCTCCCATTTTGTAACACTGTACCAGGTGGTGACTGTTTAACTCTTTGGT
GTCTGTGCTCAAAGACTGCCTTCTCCAGTGCCCAGTGTATGAGTGTGTGCCCTGTGCCCTGTCCCTCACTCCC
CACATGCTGGACGTAGCCCTCTTCCTCGCACCCCTGGGAGGGACCCATCCATCTCCCTTGCTCTCCTGGGGAACC
CTAAACCCAACCTCTGTTGATGTGAAAAATGCAGTGAAAAATATTGACGAAAAATAAAACGGAAACAAATCCTCAA
AAT

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FIGURE 464

MEEGFRDRAAFIRGAKDIAKEVKKHAAKKVVKGLDRVQDEYSRRSYSRFEEDDDDDDFPAPSDGYRGEQTQDEE
EGGASSDATEGHDEDEIYEGEYQGIPRAESGGKGERMADGAPLAGVRGGLSDGEGPPGGRGEAQRRKEREELAQ
QYEAILRECGHGRFQWTLYFVLGLALMADGVEVFVVGFLPSAEKDMCLSDSNKGMLGLIVYLGMMVGAFLWGGL
ADRLGRRQCLLISLSVNSVFAFFSSFVQGYGTFLFCRLLSGVGIGGSIPIVFSYFSEFLAQEKRGEHLSWLCMFW
MIGGVYAAAMAWAIIIPHYGWSFQMGSAIQFHSWRVFLVCAFPVFAIGALTTPESPFRFFLENGKHDEAWMVLK
QVHDTNMRAGHPPERFVSVTHIKTIHQEDELIEIQSDTGTWYQRWGVRAISLGGQVWGNFLSCFGPEYRRITLMM
MGVWFTMSFSYYGLTVWFPDMIRHLQAVDYASRTKVFPGERVEHVTFNFTLENQIHRGGQYFNDKFIGLRLKSVS
FEDSLFEECYFEDVTSSNTFFRNCTFINTVFYNTDLFEYKFVNSRLINSTFLHNKEGCPLDVTGTGEGAYMVYFV
SFLGTLAVLPGNIVSALLMDKIGRLRMLAGSSVMSCVSCFFLSFGNSESAMIALLCFLGGVSIASWNALDVLTV
LYPSDKRTTAFGFLNALCKLAAVLGISIFTSFVGITKAAPILFASAALALGSSLALKLPETRQVLQ

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FIGURE 465

GGCAGGAAAAGCGGAAGAGGGAGCGAAAACCAACGTGTTTCGGTGACAGACCCAGCGCCGACTGAGCCTCTAAAG
CGACTTCAGCTCTGCCCCACCAACACCACCGCGCGCCCGGGAACAGCCGCTCCGGGAAGAAACCTGAGGGGACTG
CGGGGGGCACGAGGGACAGCTGAGGGAAGGGAGGACGCGAGAGAAAACAGCGCGAGCACGCTGAGGGCCGGGGT
GCCAGGAGAGGGGGCCCGCGACCCGAGAGCGGAGGAAGGTCCGGGAGAAAAGGGGCGGGACGGAGGAGAATCCG
GGATCGCCTGGCAGAAAAAGAGAAGGGAGTTTCTGAATCCTGGGAAGAGGAGGCGTGGGTAGGGACGCTTAGCCC
GAGATCCGACAGCAGGGAACCGGAGCGCTCCGGGGGAGGGGCTTAATGCTGGGAAGGGATGTCTTAAAAGAGGA
GAAGCTTTAAATTAGACGATCGGAGAAGGCTGAGGGAATTGCTATGAAGGGGCGGGAGCTGAAGTGTAGAGGACT
CCTTTAGACAGCAGAAAAGGGAAAGCCGTTGAGAAAGTTCCCTTCAAACCTCCACCTGCCTCCTCTCCAATTCAACT
CCACTCCCTTCTC AAAAGTTAAAAGGAAAGCCAAGTTTACCACGCTCCCCTGTTTCTACTCAATAAACTACTTCT
TCTACTCCGCCACCGGAAAACAGAAAAAACTAATTTCCCTTCCCAATATTAGGACTTAGAAAAAGCTCTAGGT
CCCGCAATTTGAATTTTAGCCTAGGGGAATCAAAATAGTAGGAGCATTACTCTTGTTTTCTTTTTCAAATCCCA
CACCTCATCCTTCTGCGACGCCATGTCCACCAACATTTGTAGTTTCAAGGACAGGTGCGTGTCCATCCTGTGTT
GCAAATTCGTAAACAAGTGCTCAGCTCTAGGGGAATGAAGGCTGTTTTGCTGGCTGATACTGAAATAGACCTTT
TCTCTACAGACATCCCTCCTACCAACGCACTGGACTTCACTGGAAGATGCTATTTACCAAAAATCTGCAAATGTA
AACTGAAGGACATCGCATGTTTAAAATGTGGGAACATTGTAGGTTATCATGTGATTGTTCCATGTAGTTCCTGTC
TTCTTTCTGCAACAACAGACACTTCTGGATGTTTCACAGCCAGGCAGTTTATGATATTAACAGACTAGACTCCA
CAGGTGTAAACGTCCTACTTTCGGGGCAACTTGCCAGAGATAGAAGAGAGTACAGATGAAGATGTGTTAAATATCT
CAGCAGAGGAGTGATTAGATAAAATGGAATTATGATATATATGATATACAACTTTTTTCTATTTAAAAATATAT
TAATGGATCAACTTTAAAATTGTTAGTTGCCAGTGATCTTTTTTGGAAAACAAAATGGGGCATTTGTTGATTTA
TTTATTTTCTGTCTCTAATTAGTTACCTCAGTTTGATTGAAGCCAGTGAGTTGTGCTTTTCTCTACTTCTACT
TCCTCTCCCCACCTTTTTTCTGCCCAGTGTAGGTGTATTCTTAAATTCAGACGGGAAGATTCTTTCACATATCAC
TCAGTTACCTCCCAATCTGGGGGAGTTTTTCTTACAACCTTGATACCAGATACCATTAATTTTACATTCCTGAATA
AAGGCCTAGTACCCACGCATATTTCAACCATGCATATATCAAGTTCAACCGAGTTTTAATAGGGGATTAAAAAA
CAAGCTGTTAGGTTTCCATGGGCACTGGTTCTCATAGGTTCTATTGGTGATAACTGCTTTAACATGGAGCAAGAG
TTTGTGAATCAGGAAATAGAATAAAATTAATAATTAATAATATATAGAGGAATCCTCTTGATTGCTCAGCATGATGT
TAGATAAATGAGTTTGTGAGAAAATATCAGTATACGCTGTTTACCAATGTTATTTATTTACATTCTCTAAAGCC
ATTATGGATATTGTATTATGAGAGCTAAACCTAAATAAGTTATCCTGTTCCCTAGGACCTTCTCTGTAAATAGTG
AATTTTAGACGAGTGCTGTCTCTAAATCTTAAATAGAAAAAACTAAAGCGATTTGCTTAAGCCATTGTACA
TTATAAAGAGCTGTTTTGTTTTGCTTTGCTTTGCTTTGTTTTTTTTTAAAGCTGCATTACAGAGCTACAAAGG
AATAGGAAAGTAGGGTAGTGTTGGATTCTGGTTTTATGTAACCTCTAAAATAAATGTATCTCTTAATATCTCAGT
TGTAGGGATTTTGTCATAACCAAAGCAGACTGAGTTGTGGTTTTGTAAATAAAGTTTTTCTAAAAATGACCATT
CTTCCTTTAATTTTTTGTATGCCCACATATTGTATGTAAATAAATAAATAGTACTTAAAGTAT

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FIGURE 466

CAGCAGTGCTGTTTACTCATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCA
AGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGT
CTTGACAGGACTCACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTA
TGGAAGTTCCCTTTATGCATTGGAGGAAAAGCATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGG
GAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCA
AAACCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAGGACTCACTGGA
TAGATGTTATTCAACTCCTTCAGGTTGTCTTGAACAGTACTGACTCATGCCAGCCCTACAGAAAGTGCCTTTTACAT
ATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCA
AGACCCATCATGCCCCAGGCTCAGCGGGGAGCTGTTGGATGAGAAAGAGCCTGAAGTCTTGCAGGAGTCACTGGA
TAGATGCTATTCAACTCCTTCAGGTTGTCTTGAACAGTACTGACTCATGCCAGCCCTACAGAAAGTGCCTTTTACAT
ATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCA
AGACCCATCATGCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCACTGGG
TAGATGTTATTTCGACTCCTTCAGGTTATCTTGAACAGCCTGACTTAGGCCAGCCCTACAGCAGTGTCTTTTACTC
ATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGAAGAAGACCA
AGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGCAGGACTCACTGGA
TAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCCCTTTTATGC
ATTGGAGGAAAAACATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAG
GGGAAGAAGATCAAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAACCCACCATGCCCCAG
GCTCAACAGCATGCTGATGGAAGTGGAAGAGCCTGAAGTCTTGCAGGACTCACTGGATATATGTTATTTCGACTCC
GTCAATGTACTTTGAACTACCTGACTCATTCCAGCACTACAGAAGTGTGTTTTACTCATTGAGGAAGAGCATAT
CAGCTTCGCCCTTTACGTGGACAATAGGTTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTGTTCAGATGGG
AGTCATATTCCACAATAAGCAGCCCTTACTAAGCCGAGAGGTGTCATTCTGCAGGCAGGACCTATAGGCACGT
GAAGATTTGAATGAAAGTACAGTTCCATTGGAAGCCCAGACATAGGATGGGTGAGTGGGCATGGCTCTATTCT
ATTCTCAAACCATGCCAGTGGCAACCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTTTAC
ATAACTGTGCAGCACATGCCGGGAGTGATCAGTCAGACATTTTAATTTGAACCACGTATCTCTGGGTAGCTACAA
AATTCCTCAGGGATGTCAATTTGCAGGCATGTCTCTGAGCTTCTATACCTGCTCAAGGTCAATTGTCATCTTTGTG
TTTAGCTCATCCAAAGGTGTTACCTGGTTTCAATGAACCTAACCTCATTCTTTGTGTCTTCAGTGTGGCTTGT
TTTAGCTGATCCATCTGTAACACAGGAGGGATCCTTGGCTGAGGATTGTATTTCAGAACCACCAACTGCTCTTGA
CAATTGTTAACCCGCTAGGCTCCTTTGGTTAGAGAAGCCACAGTCTTCAGCCTCCAATTGGTGTGAGTACTTAG
GAAGACCACAGCTAGATGGACAAACAGCATTTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAA
CAGGAGTCAGGAGCCGCTGGCAGGAGACAGCATGTCACCCAGGACTCTGCCGGTGCAGAATATGAGCAATGCCAT
GTTCTTGAGAAAACGCTTAACCTGAGTTTCATAGGAGGTAATCACCAGACAAGTGCAGAATGTAGAACACTGAG
CAGGACAAGTACCTGTCTCCTTCACATAGTCCATATCACCACAAATCACACAACAAAAGGAGAAGAGATATTT
TCGTTGAAAAAAGTAAAAAGATA

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FIGURE 467

MDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEEQYLGLALD
VDRIKKDQEEEEEDQGPPCPRLSRELLEVAEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLD
VGEIEKKKGKGGRRGRRSKKERRRGRKEGEEDQNPPCPRLNGVLMEEVEPEVLQDSLDCYSTPSMYFELPDSFQ
HYRSVFYSFEEEHISFALYVDNRFFTLTVTSLHLVFMGVIFTQ

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FIGURE 468

ATGACGCGAGACCCCGCCCCGCGAGCGCCGCTTCCAAGATGGCGGCAGCGATGCCTGCCCGGCTGTTGGGGTGG
CGGTGACGACAGGCAGCAAAAGACCAGCTGGTCCCAGATTGCTGCTGGAGTGCTGGATGGAGCCTTTCTCTGCC
CTCTGTGACATTTCCAATTTTAGATAATGCCTCACATCTCTGTCCCCCGGGACCCCTGGAGCCCCATGATCC
CTAAGAAGACAGCTTGAACCTAGATCTCACCCCCAGGATGTTGCGGAGGCTGCTGGAGCGGCCTTGACGCTGGC
CCTGCTTGTGGGCTCCCAGCTGGCTGTCATGATGTACCTGTCACTGGGGGGCTTCCGAAGTCTCAGTGCCCTATT
TGGCCGAGATCAGGGACCGACATTTGACTATTCTCACCCCTCGTGATGTCTACAGTAACCTCAGTCACTGCCTGG
GGCCCCAGGGGGTCTCCAGCTCCTCAAGGTCTGCCCTACTGTCCAGAACGATCTCCTCTCTTAGTGGGTCTGT
GTCGGTGTCTTTAGCCAGTGCCATCACTGGCAGAGATTGTGGAGCGGAATCCCCGGGTAGAACCAGGGGGCCG
GTACCGCCCTGCAGGTTGTGAGCCCCGCTCCCGAACAGCCATCATTGTGCCTCATCGTGCCCGGGAGCACCACT
GCGCCTGCTGCTCTACCACTGACCCCTTCTTGCCAGCGCCAGCAGCTTGCTTATGGCATCTATGTATCCACCA
GGCTGGAAATGGAACATTTAACAGGGCAAACTGTTGAACGTTGGGGTGCGAGAGGCCCTGCGTGATGAAGAGTG
GGACTGCCTGTTCTTGACGATGTGGACCTCTTGCCAGAAAATGACCACAATCTGTATGTGTGTGACCCCCGGG
ACCCGCCATGTTGCCGTTGCTATGAACAAGTTGGATACAGCCTCCCGTACCCCACTACTTCGGAGGAGTCTC
AGCACTTACTCCTGACCACTACCTGAAGATGAATGGCTTCCCCAATGAATACTGGGGCTGGGGTGGTGAGGATGA
CGACATTGCTACCAAGGTGCGCCTGGCTGGGATGAAGATCTCTCGGCCCCCACATCTGTAGGACACTATAAGAT
GGTGAAGCACCGAGGAGATAAGGGCAATGAGGAAAATCCCCACAGATTTGACCTCCTGGTCCGTACCCAGAAATC
CTGGACGCAAGATGGGATGAACTCACTGACATACCAAGTTGCTGGCTCGAGAGCTGGGGCTCTTTATACCAACAT
CACAGCAGACATTGGGACTGACCCCTCGGGGTCTCGGGCTCCTTCTGGGCCACGTTACCCACCTGGTTCTCTCCCA
AGCCTTCCGTCAAGAGATGCTGCAACGCCGGCCCCCAGCCAGGCTGGGCCTCTATCTACTGCCAACACACAGC
CCTCCGAGGTTACACTGACTCCTCCTTCTGTCTACCTTAATCATGAAACCGAATTCATGGGGTTGTATTCTCC
CCACCCTCAGCTCCTCACTGTTCTCAGAGGGATGTGAGGGAACTGAACTCTGGTGCCGTGCTAGGGGGTAGGGGC
CTCTCCCTCACTGCTGGACTGGAGCTGGGCTCTGTAGACCTGAGGGGTCCCTCTCTCTAGGGTCTCCTGTAGGG
CTTATGACTGTGAATCCTTGATGTGATGATTTTATGTGACGATTCCTAGGAGTCCCTGCCCCTAGAGTAGGAGCA
GGGCTGGACCCCAAGCCCCTCCCTCTTCCATGGAGAGAAGAGTGATCTGGCTTCTCCTCGGACCTCTGTGAATAT
TTATTCTATTTATGTTTCCCGGAAGTTGTTTGGTGAAAGGAAGCCCCCTCCCTGGGCATTTTCTGCCTATGCTGGA
ATAGCTCCCTCTTCTGGTCTGGCTCAGGGGGCTGGGATTTTGATATATTTTCTAATAAAGGACTTTGTCTCGC

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FIGURE 469

MLRRLLERPCTLALLVGSQ LAVMMYLSLGGFRSL S ALFGRDQGPTFDYSHPRDVYSNL SHLP GAPGGPPAPQGLP
YCPERSPLLVG PVSVSFSPVPSLAEIVERNPRVEPGGRYRPAGCEPRSR TAIIVPHRAREHHLRLLLYHLHPFLQ
RQQLAYGIYVIHQAGNGTFNRAKLLNVGVREALRDEEWDCLFLHDVDLLPENDHNLYVCDPRGPRHVAVAMNKFG
YSLPYYPQYFGGVSALTPDQY LKMNGFPNEYWGWGGEDDDIATRVRLAGMKISR PPTSVGHYKMKVHRGDKGNEEN
PHRFDLLVRTQNSWTQDGMNSLT YQLLARELGPLYTNITADIGTDPRGPRAPSGPRYP PGSSQAFRQEMLQRRPP
ARPGPLSTANHTALRGSH

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FIGURE 470

GGCACGAGGGCCCCAGGAGAGGCAGAGAGTGAGGGAAAGGGCCTGGCCGGCATGCACAGATAGGATCACGGTCCT
GGGAGAATTCCCTGCTCTTATAGTCTAACCTACCATGGCTTCTCTTTTCTCAAGGCTCCCTCATGCTGCCCTTTGG
CCCTAGTGGCTGGTTTCCAGGGCTGAGGGGACTGAGTGAGCTGCCTGAGAAAAGAGGGTAGGGAACAGAAAAGCC
AGCCAGGAGCTGTGGGAGGAAACGCCCTCAGTAAAGATGACCGCGGTCAGTGTATCTAAACGCAAGTGAAGCCG
AGTCACAGGACCCGGATGTTGTGTCAGTTCGACGGTAAACGACCCCTGCCAGCTTCCAAGAGGGCGGCTTCACTGTGC
GAATAGGTGAGAAGCCAAGAAGGAGGCGCGCTGGAGTTACTTCCGCCCCGGTTCTCCTTCCCGCAGTCTGCAGCCG
GAGTAAGATGGCGGCGCTGAGGGCTTTGTGCGGCTTCCGGGGCGTCGCGGCCCAGGTGCTGCGGCCTGGGGCTGG
AGTCCGATTGCCGATTACAGCCAGCAGAGGTGTTCCGGCAGTGGCAGCCAGATGTGGAATGGGCACAGCAGTTTGG
GGGAGCTGTTATGTACCCAAGCAAAGAAACAGCCCACTGGAAGCCTCCACCTTGAATGATGTGGACCCTCCAAA
GGACACAATTGTGAAGAACATTACCCTGAACCTTTGGGCCCCAACACCCAGCAGCGCATGGTGTCTGCGACTAGT
GATGGAATTGAGTGGGGAGATGGTGCAGGAAGTGTGATCCTCACATCGGGCTCCTGCACCGAGGCACTGAGAAGCT
CATTTGAATACAAGACCTATCTTCAGGCCCTTCCATACTTTGACCGGCTAGACTATGTGTCCATGATGTGTAACGA
ACAGGCCATATTCTCTAGCTGTGGAGAAGTTGCTAAACATCCGGCCTCCTCCTCGGGCACAGTGGATCCGAGTGCT
GTTTGGAGAAATCACACGTTTGTGTAACCACATCATGGCTGTGACCACACATGCCCTGGACCTTGGGGCCATGAC
CCCTTTCTTCTGGCTGTTTGAAGAAAGGGAGAAGATGTTTGAGTTCTACGAGCGAGTGTCTGGAGCCCCGAATGCA
TGCTGCTTATATCCGGCCAGGAGGAGTGCACCAGGACCTACCCCTTGGGCTTATGGATGACATTTATCAGTTTTCT
TAAGAACTTCTCTCTTCGGCTTGATGAGTTGGAGGAGTTGCTGACCAACAATAGGATCTGGCGAAATCGGACAAT
TGACATTGGGGTTGTAACAGCAGAAGAAGCACTTAACCTATGGTTTTAGTGGAGTGATGCTTCGGGGCTCAGGCAT
CCAGTGGGACCTGCGGAAGACCCAGCCCTATGATGTTTACGACCAGGTTGAGTTTGATGTTTCTGTTGGTTCTCG
AGGGGACTGCTATGATAGGTACCTGTGCCGGGTGGAGGAGATGCGCCAGTCCCTGAGAATTATCGCACAGTGTCT
AAACAAGATGCCTCCTGGGGAGATCAAGGTTGATGATGCCAAAGTGTCTCCACCTAAGCGAGCAGAGATGAAGAC
TTCCATGGAGTCACTGATTCATCACTTTAAGTTGTATACTGAGGGCTACCAAGTTCTCCAGGAGCCACATATAC
TGCCATTGAGGCTCCCAAGGGAGAGTTTGGGGTGTACCTGGTGTCTGATGGCAGCAGCCGCCCTTATCGATGCAA
GATCAAGGCTCCTGGTTTTTGGCCATCTGGCTGGTTTGGACAAGATGTCTAAGGGACACATGTTGGCAGATGTCGT
TGCCATCATAGGTACCCAAGATATTGTATTTGGAGAAGTAGATCGGTGAGCAGGGGAGCAGCGTTTGATCCCCC
TGCCTATCAGCTTCTTCTGTGGAGCCTGTTCCCTCACTGGAAATTGGCCTCTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTATGTTCTGTGTACACTTGGCTGTCAGGCTTCTGTGCATGTACTAAAAAAGGAGAAATTATAATAAAT
TAGCCGTCTTGCGGCCCTAGGCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 471

MAALRALCGFRGVAAQVLRPGAGVRLPIQPSRGVRQWQPDVEWAQQFGGAVMYP SKETAHWKPPPWNVDVDPKDT
IVKNITLNFQHPAAHGVLRLVMEISGEMVRKCDPHIGLLHRGTEKLI EYKTYLQALPYFDRLDYVSMMCNEQA
YSLAVEKLLNIRPPPR AQWIRVLFGEITRLLNHIMAVTTHALDLGAMTPFFWLFEEREKMF EYERVSGARMHAA
YIRPGGVHQDLPLGLMDDIYQFSKNFSLRLDELEELLTNNRIWRNRTIDIGVVTAEEALNYGFSGVMLRGSGIQW
DLRKTQPYDVYDQVEFDVPVGSRGDCYDRYLCRVEEMRQSLRIIAQCLNKMP PGEIKVDDAKVSPPKRAEMKTSM
ESLIHHFKLYTEGYQVPPGATYTAIEAPKGEFGVYLVSDGSSRPYRCKIKAPGFAHLAGLDKMSKGHMLADVVAI
IGTQDIVFGEVDR

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FIGURE 472

CCGGAACCCAAGATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACCTTAGCCCTCAG
CTCTGTATCAGAAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCA
GGGGTCTCTCTTTTTTGGCATGTCGGCCCTGTTACTCCCTGGGAACCTTTGAGTCTTATTTGGAACCTGTGAAGTCC
CTGTGTCTGGGGCCAGCACTGATCCACACAGCTAAGTTTGCACTTGTCTTCCCTCTCATGTATCATACCTGGAAT
GGGATCCGACACTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTC
CTGGTTCTTACTGTGTTGTCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCCTA
CACATTATTACATTACCCATCTTTCTGTTTGTCACTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTT
AGATCCTTTTGTATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCATAATAGTGGAAAAGGGTCTAG
TTTTCCCCTTGTTTCTAAAGATGAGGTGGCTGCATCTCTCTCCATATTGGGCTTT

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FIGURE 473

AATCATAGTGAAAGATTTCGTTTTTCATTGCAGAGTGGTATGATCCAAATGCTTCACTTCTTCGACGTTATGAGCTT
TTATTTTACCCAGGGGATGGATCTGTTGAAATGCATGATGTAAAGAATCATCGCACCTTTTTAAAGCGGACCAAA
TATGATAACCTGCACCTTGGGAAGATTTATTTATAGGCAACAAAGTGAATGTCTTTTCTCGACAACTGGTATTAATT
GACTATGGGGATCAATATACAGCTCGCCAGCTGGGCAGTAGGAAAGAAAAACGCTAGCCCTAATTAAACCAGAT
GCAATATCAAAGGCTGGAGAAATAATTGAAATAATAAACAAAGCTGGATTTACTATAACCAAACCTCAAAATGATG
ATGCTTTCAAGGAAAGAAGCATTGGATTTTCATGTAGATCACCAGTCAAGACCCTTTTTCAATGAGCTGATCCAG
TTTATTACAACCTGGTCCTATTATTGCCATGGAGATTTTAAGAGATGATGCTATATGTGAATGGAAAAGACTGCTG
GGACCTGCAAACCTCTGGAGTGGCAGCACAGATGCTTCTGAAAGCATTAGAGCCCTCTTTGGAACAGATGGCATA
AGAAATGCAGCGCATGGCCCTGATTCTTTTGCTTCTGCGGCCAGAGAAATGGAGTTGTTTTTTCCTTCAAGTGGA
GGTTGTGGGCCGGCAAACACTGCTAAATTTACTAATTGTACCTGTTGCATTGTTAAACCCCATGCTGTCAGTGAA
GGACTGTTGGGAAAGATCCTGATGGCTATCCGAGATGCAGGTTTTGAAATCTCAGCTATGCAGATGTTCAATATG
GATCGGGTTAATGTTGAGGAATTCTATGAAGTTTATAAAGGAGTAGTGACCGAATATCATAGGACATGGTGACAG
AAATGTATTCTGGCCCTTGTGTAGCAATGGAGATTCAACAGAATAATGCTACAAAGACATTTGAGAAATTTTGTG
GACCTGCTGATCCTG

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FIGURE 474

GCCCTTGCCCTTGAGTCAGTGCGCTGCTCTCCAGCCCGCTTGAACGCTCCCCGCAGCCACCGCCACCCATTGGAAT
GGCCAACAGGGGACCTGCATATGGCCTGAGCCGGGAGGTGCAGCAGAAGATTGAGAAACAATATGATGCAGATCT
GGAGCAGATCCTGATCCAGTGGATCACCACCCAGTGCCGAAAGGATGTGGGCCGGCCCCAGCCTGGACGCGAGAA
CTTCAGAACTGGCTCAAGGATGGCACGGTGCTATGTGAGCTCATTAAATGCACTGTACCCCGAGGGGCAGGCCCC
AGTAAAGAAGATCCAGGCCTCCACCATGGCCTTCAAGCAGATGGAGCAGATCTCTCAGTTCCCTGCAAGCAGCTGA
GCGCTATGGCATTAAACACCACTGACATCTTCCAAACTGTGGACCTCTGGGAAGGAAAGAACATGGCCTGTGTGCA
GCGGACGCTGATGAATCTGGGTGGGCTGGCAGTAGCCCGAGATGATGGGCTCTTCTCTGGGGATCCCAACTGGTT
CCCTAAGAAATCCAAGGAGAATCCTCGGAACTTCTCAGATAACCAGCTGCAAGAGGGCAAGAACGTGATCGGGTT
ACAGATGGGCACCAACCGCGGGGCGTCTCAGGCAGGCATGACTGGCTACGGGATGCCACGCCAGATCCTCTGATC
CCACCCAGGCCTTGCCCTGCCCTCCACGAATGGTTAATATATATGTAGATATATATTTTAGCAGTGACATTC
CCAGAGAGCCCCAGAGCTCTCAAGCTCCTTTCTGTGAGGGTGGGGGGTTTCAGCCTGTCTGTACCTCTGAGGTG
CCTGCTGGCATCCTCTCCCCCATGCTTACTAATACATTCCCTTCCCCATAGCCATCAAAACTGGACCAACTGGCC
TCTTCCTTTCCCTGGGACCAAAATTTAGGGGCCCTCAGTCCCTCACCGCCATGCCCTGGCCTATTCTGTCTCTCC
TTCTTCCCCCTGGCCTGTTCTGTCTCTGAGCTCTGTGTCCTCCGTTCAATCCATGGCTGGGAGTCACTGATGCTG
CCTCTGCCTTCTGATGCTGGACTGGCCTTGCTTCTACAAGTATGCTTCTCCACAGCTGTGGCTGCAGGAACCTTA
ATTTATAGGGAGGAGCCTGTGGCAGCTGCTGCCCCAGCCACAGCTGCACTGACTGTGCTCACCACACATCTGGGG
CAGCCTTCCCTGGCAGGGGCCCTCGTGGCTTCTCATTTTCCATTCCCTTCACTGTGGCTAAGGGGTGGGGTGAGG
GGATGGAGAGGGAGGGCTGCCTACCATGGTCTGGGGCTTGAGGAAGATGAGTTTGTTGATTTAAATAAAGAATTT
GTCATTTTGTG

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FIGURE 475

MANRGPAYGLSREVVQKIEKQYDADLEQILIQWITTQCRKDVGRPQPGRENFQNLKDGTVLCELINALYPEGQA
PVKKIQASTMAFKQMEQISQFLQAAERYGINTTDFQTVDLWEGKNMACVQRTLMNLGGLAVARDDGLFSGDPNW
FPKKSKENPRNFSDNQLQEGKNVIGLQMGTNRGASQAGMTGYGMPRQIL

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FIGURE 476A

GTGGAGCCGAGCGGTGCGGAGCAGATCTGGTGGTTCTCCGGAGAGCAGCTTCCTCGGGTGTTACATGAGCCAAGC
CCTCACTGTACAGAAGAGTGAGAGCTGAAACCTGTTCCCTGAGCTGATCAGAAGGACATCCCTTGCCCCCTCCAT
CTGGGCTCCTGTGGATAGGAGGGGCTGGGTGAGCAGGCCAGCTGGGCTATGGTGTGGTGCCTCGGCCTGGCCGTC
CTCAGCCTGGTCATCAGCCAGGGGGCTGACGGTCGAGGGAAGCCTGAGGTGGTATCGGTGGTGGGCCGGGCTGGG
GAGAGTGTGGTGCTGGGCTGTGACCTGCTGCCCCCGGCCGGCCGCCCCCTGCATGTATCGAGTGGCTGCGC
TTTGATTCTCTGCTTCCCATCTTCATCCAGTTCGGCCTCTACTCTCCCCGAATTGACCCTGATTACGTGGGACGA
GTCCGGCTGCAGAAGGGGGCTCTCTCCAGATTGAGGGTCTCCGGGTGGAAGACCAGGGCTGGTACGAGTGCCGC
GTGTTCTTCTGGACCAGCACATCCCTGAAGACGATTTTGCTAACGGCTCCTGGGTGCATCTGACAGTCAATTCA
CCCCCTCAATTCAGGAGACACCTCCTGCTGTGTTGGAAGTGCAGGAAGTGGAGCCTGTGACCCTGCGTTGTGTG
GCCCCGTGGCAGCCCCCTGCCTCATGTGACGTGGAAGCTCCGAGGAAAGGACCTTGGCCAGGGCCAGGGCCAGGTG
CAAGTGCAGAACGGGACGCTGCGGATCCGCCGGGTAGAGCGAGGCAGCTCTGGGGTCTACACCTGCCAAGCCTCC
AGCACTGAGGGCAGCGCCACCCACGCCACCCAGCTGCTAGTGCTAGGACCCCCAGTCATCGTGGTGCCCCCAAG
AACAGCACAGTCAATGCCTCCAGGATGTTTCATTGGCCTGCCATGCTGAGGCATACCCTGCTAACCTCACCTAC
AGCTGGTTCAGGACAACATCAATGTCTTCCACATTAGCCGCTGCAGCCCCGGGTGCGGATCCTGGTGGACGGG
AGCCTGCGGGCTGCTGGCCACCCAGCCTGATGATGCCGGCTGCTACACCTGTGTGCCAGCAATGGCCTCCTGCAT
CCACCCTCAGCCTCTGCCTACCTCACTGTGCTCTACCCAGCCCAGGTGACAGCTATGCCTCCTGAGACACCCCTG
CCCATAGGCATGCCGGGGGTGATCCGCTGCCCGGTTCTGTGCCAACCCCCCACTGCTCTTTGTGACGTGGACCAAG
GATGGAAGGGCCCTGCAGCTGGACAAGTTCCCTGGCTGGTCCCAGGGCACAGAAGGCTCACTGATCATCGCCCTG
GGGAACGAGGATGCCCTGGGAGAATACTCCTGCACCCCCCTACAACAGTCTTGGTACCGCCGGGCCCTCTCCTGTG
ACCCGCGTGCTGCTCAAGGCTCCCCCAGCTTTTATAGAGCGGCCCAAGGAAGAATATTTCCAAGAAGTAGGGCGG
GAGCTGCTCATCCCTGCTCCGCCCAAGGGGACCTCCTCCTGTTGTCTCTTGGACCAAGGTGGGCCGGGGGCTG
CAAGGCCAGGGCCAGGTGGACAGCAACAGCAGCCTCATCCTGCGACCATTGACCAAGGAGGCCCCACGGGCACTGG
GAATGCAGTGCCAGCAATGCTGTGGCCCCGAGTGGCCACCTCCACGAACGTCTACGTGCTGGGCACTAGCCCTCAT
GTTGTACCAATGTGTCCGTGGTGGCTTTGCCCAAGGGTGCCAATGTCTCCTGGGAGCCTGGCTTTGATGGTGGT
TATCTGCAGAGATTAGTGTCTGGTACACCCCACTGGCCAAGCGTCCTGACCGAATGCACCATGACTGGGTGTCC
TTGGCAGTGCCCTGTGGGGGCTGCTCACCTCCTAGTGCCAGGGCTGCAGCCCCACACCCAGTACCAGTTCAGCGTG
CTAGCTCAGAACAAGCTGGGGAGTGGTCCCTTCAGCGAAATCGTCTTGTCTGCTCCGGAAGGGCTTCTACCACG
CCAGCTGCACCCGGGCTTCCCCCAACAGAGATACCGCCTCCCCTGTCCCCTCCGCGGGGTCTGGTGGCAGTGAGG
ACACCCCGGGGGGTACTCCTGCATTGGGATCCCCCAGAGCTGGTCCCTAAGAGACTGGATGGCTACGTCTTGGA
GGCCGGCAAGGCTCCAGGGCTGGGAGGTGCTGGACCCGGCTGTGGCAGGCACAGAAACAGAGCTGCTGGTGCCA
GGCCTCATCAAGGTATGTTCTCTACGAGTTCGGCCTCGTGGCCTTCGCGGGCAGCTTCGTGACGACCCCCAGCAA
CACGGCCAACGTCTCCACTTCCGGTCTGGAGGTCTACCTTCGCGCACGCAGCTGCCGGGCTCCTGCCTCAGCC
CGTGCTGGCCGGCGTGGTGGGCGGAGTCTGCTTTCTGGGAGTGGCCGTCCTTGTGAGCATCCTGGCCGGCTGCCT
CCTGAACCGGCGCAGGGCTGCCCGCCGCCGCCGAAGCGCCTCCGCCAAGATCCACCTCTTATCTTCTCTCCGAC
CGGGAAGTCAGCTGCACCCCTGTCTCTGGGCTCAGGCAGTCTGACAGCGTGGCGAAGCTGAAGCTCCAGGGATC
CCCAGTCCCCAGCCTGCGCCAGAGTCTGCTCTGGGGGGATCCTGCCGGAAGTCCCAGCCCCCAGCCGGATCCTCC
ATCTAGCCGGGGACCTTACCTCTGGAGCCCCATTTGCCGGGGCCAGACGGGCGCTTTGTGATGGGGCCCCACTGT
GGCGGCCCCCAGGAAAGGTGAGGCCGGGAGCAGGCAGAAGCTCGGACTCCAGCCCAGCGTCTGGCCCCGGTCCTT
TGACTGTAGCAGCAGCAGCCCCAGTGGGGCAGCCAGCCCTCTGCATTGAAGACATCAGCCCTGTGGCAGCCCC
TCCAGCAGCCCCACCCAGTCCCTTGCCAGGTCTGGACCCCTGCTCCAGTACCTGAGCCTGCCCTTCTTCCGAGA
GATGAATGTGGATGGGGACTGGCCCCCGCTTGAGGAGCCCAGCCCTGCTGCACCCCCAGATTACATGGATACCCG
GCGCTGTCCACCTCATCTTTCCCTTCGTTCTCCAGAAACCCCTCCTGTATCCCCAGGGAATCACTTCTGGGGC
TGTGGTAGGGGCTGGGGCCACTGCAGAGCCCCCTTACACAGCCCTGGCTGACTGGACACTGAGGGAGCGGCTGCT
GCCAGGCCTTCTCCCTGCTGCCCCCTCGAGGCAGCCTACCAGCCAGAGCAGTGGGCGAGGCAGCGCTTCGTTCT
GCGGCCCCCTCCACAGCCCCCTCTGCAGGAGGCAGCTACCTCAGCCCTGCTCCAGGAGACACCAGCAGCTGGGC
CAGTGGCCCTGAGAGATGGCCCCGAAGGGAGCATGTGGTGACAGTCAGCAAGAGGAGGAACACATCTGTGGACGA
GAACTATGAGTGGGACTCAGAATTCCCTGGGGACATGGAATTGCTGGAGACTTTGCACCTGGGCTTGGCCAGCTC
CCGGCTCAGACCTGAAGCTGAGCCAGAGCTAGGTGTGAAGACTCCAGAGGAGGGCTGCCTCCTGAACACTGCCCA

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FIGURE 476B

[illegible]

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FIGURE 477

TTTCCGTGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCGTCGTAACTCAAAGGGAACTTTCA
CAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACT
TAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATGGCATCTACATCATAA
ATCTGAAGGGAACTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCA
GTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTG
CTGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCATGGCTTCTTATGGTTA
CTGACCCCAGGGGGTGACCATCAGCCTCTCACAGAGGCATCTTATGTTAATCTACCTACCATCGCTCTGTGTAAC
ACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAGCTCACTGAGTGGGTTTGATG
TGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCT
GATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAG
GAGGAATTTAGGGTGAATGGTCTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTTT
GAAGGTATACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCTACTGAACAATGGAGCACTCAGCCTGCCACGGAAT
ACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTG
CATGGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 478

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDLQMEQYIYKRKSDGIYIINLKGTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGHFTPGFTNQIQAAFWEPPWLLMVTDPGR

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FIGURE 479

AAAGGGAACTTTACAATGTCCGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTG
CAGCAGGAACCCACTTAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATG
GCATCTACATCATAAATCTGAAGGGAACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAA
ACCCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTG
GAGCCACTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACCTAACCAGATCCAGGCATCTTATGTTAATCTAC
CTACCATCGCTCTGTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAG
CTCACTGAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCTGTAAC
ACCCATGGGAGGTCATGCCTGATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAGAAGAGCAGGCTGCTG
CTGA

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FIGURE 480

MSGALDVLQMKEEDVLKFLTAGTHLGGTNLDFQMEQYIYKRRSDGIYIINLKRTWEKLLLAARAIVAIENPAVVS
VISSRNTGQRAVLKFAAVTGATPIAGRFTPGNFTNQIQEASYVNLPTIALCNTDSPLHFVDIAIPCNNKGAH

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FIGURE 481A

AGGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTGCGGGGCCGAAGCGGACAGGGAATTGGAGGAGCTTCT
GGAAAGTGCTCTTGATGATTTTCGATAAAGCCAAACCCCTCCCCAGCACCCCCTTCTACCACCACGGCCCCCTGATGC
TTCGGGGCCCCAGAAGAGATCGCCAGGAGACACTGCCAAAGATGCCCTCTTCGCTTCCCAAGAGAAGTTTTTCCA
GGAAGTATTCGACAGTGAAGTGGCTTCCCAAGCCACTGCGGAGTTCGAGAAGGCAATGAAGGAGTTGGCTGAGGA
AGAACCCACCTGGTGGAGCAGTTCCAAAAGCTCTCAGAGGCTGCAGGGAGAGTGGGCAGTGATATGACCTCCCA
ACAAGAATTCACCTTCTTGCTAAAGGAAACACTAAGTGGATTAGCCAAAAATGCCACTGACCTTCAGAACTCCAG
CATGTCGGAAGAAGAGCTGACCAAGGCCATGGAGGGGCTAGGCATGGACGAAGGGGATGGGGAAGGGAACATCCT
CCCCATCATGCAGAGTATTATGCAGAACCTACTCTCCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGA
AAAGTATCCAGAATGGTTGCAGAGTCATCGGGAATCTCTACCTCCAGAGCAGTTTGAAAAATATCAGGAGCAGCA
CAGCGTCATGTGCAAAATATGTGAGCAGTTTGAGGCAGAGACCCCCACAGACAGTGAAACCACTCAAAAGGCTCG
TTTTGAGATGGTGTGCTGGATCTTATGCAGCAGCTACAAGATTTAGGCCATCCTCCAAAAGAGCTGGCTGGAGAGAT
GCCTCCTGGCCTCAACTTTGACCTGGATGCCCTCAATCTTTCGGGGCCACCAGGTGCCAGTGGTGAACAGTGTCT
GATCATGTGAACACAACACGTTTTCTCTCTGAGTCCCAGCTATGGGGAACATCTGGAGTCAGCAGAACCATTG
GGACCTGAGGCAGGAGTGTACCTGCGGGAGAACTCTGCCCCGCTGCCCTCTGTATCCCATTCAGATTGTGCCA
TACCAGCTGAGGTTTTCTCTGTCTCTCTAGGAATAGGGTCTGTTTCACAGGCCATTTCTGTGAACCCCTACTCC
ATTGTGGTTTTCTGCCACTATCAAAGTTCAGCTACCTGCAAGGTGAAGGAAGGCATCCCTTTTGGGGCATGCACT
TTCTTTCTCTCTCAAAATAATGTTATATGTGGCCACACTGATGTTACCTTTACGTCCAGGGTCTTTGTGCCTT
GTCTCTACTCCCTCTCTTGGATCTGGGGAGGAGGGGCAGAGACCTGGGACTCTGTATTTCTATAGTTCTCCTGGC
AGAGCCTTTGAGAATGGGGAGAAACAGCCTGGGCTGGGGCTACAGGTCTGTCACTATGCTCTCTTGCCCTCAGAC
AGACCATTCTGAATTCTCTAAAGGGAAAGGGCTTTTGCATCTAATCACAATAGAGTTGAAAGAGAGGCCTTAGGA
TTCTCCTCTCTCTAGGTGCTGAGCCCTCACCTCCCTGTTCCAGGCTGAGAACTCAAATGGTTACCCTGCTCTCTC
CTACAATGCTGTGTGATATGGGTGAACCCAGCCCCCTGACCTTCCTCTATCCCCTGCCATCCTCCCTTTTACCTC
CTCTCTTTTTTAAACACCTGTTTATCCCAACCTTTTTGAGCTCAAGCTGTGATAAAGAAGGGCCCATCCTATTTT
CCCTCATCTAGTCCATTTACGATTCTCACTGACTCCCCGTCTTCTGGCAGACACAAATAAACCAGTGTCAAGT
CTAGGAAATTAATGGCTATTCTTCCCCAGATACATTCTGGCTTATTTGAGATACATGATTCTCTTAGAATCCTGT
CCCTTGGTTCAGGAAAGTAGCTTGGAAAAGGAGTAGGGGTATAGCTTGGGTCCCTTTTCTGCAAGGCCCATGG
GGCAGAATATAATAAATATTCTGAGTGAGGAGTGTGGTCTTTTTCTGATCTTCTCAGCTTCCGTAAGTTGCAGA
GTGAGGTATATTAGGAGACTAGTTCTACACAATATTGTAATGCTGGGTCCATCAACACCCACCTTCCACAACCTC
AGTCTGCACCTCAGTTGGCAAAGGAGACTGGATGGCCATCTTCTCTCATGTTCCCTTGAGTATTTCAATGTAGAA
AGCCCTTCAAGTGGTATTATATTTTAACTTTTACATTATTGTTATTAATGTTAGTAATATATTGTTATGTTTTT
TAAATTATTTTTCTTTAAGCTGACGTGGCTTTTTTCTGTGGCTCCCAGTGGGTCTACGGACCTTGGCTGACATA
TGTTGGTAGGTACTCTGGTCAGCTCAGCTGGCTGTCTGGTTCACCTCAGAAGATAAGTCTCTCCAAAGCAAATTC
ACATGCATTATGAGTCGCTTTGAGCTTCTGACATGTCACTTGGCCCGAGGTTAAACTTTTACCCCTTGAAGAC
CTTACATGTTTTATGGTATTGGTGAGGAAGGAAATGTTCTCAAGGTCTCAGGCTATTTGGGAAATTCCAACCTCCT
ATACCTTACCAGAGCATGGAAGAGCCCAGATCTGAATGTAAACGTCTCTGTTCTGCCAGAGATGGAAAAAATAC
AGGTATACTTGTGATATAGTCATGGGGCTTCAGTGTCACTATTTTCTCCTTAAAGCTCCAGCCAAAAACTGGACA
AGGATAGAGAGGAGGAGGGAAGAACAAGAGCCCTTCTCTATGAACCTTGTGCCTTCTGTCTTACCAGTTTTCT
TTTACAGATTCTCACTTCTGCTAGCCTAGCCAGGGCTTACTCCAGGAATCTAAATAGATGCCCTAGTCCACTTTA
TCTTTGTTCCTCAAGGCACTCATTTTTATTTTGAATTTGATTGAATGTGAGCAGGTTGACCTCAGGTCACACTTTG
TTCCAAAACCTTTTGAATTAATCCAGGACTTGTGGTGGAGTTATGGTACTCTAGGGCAGTCTTTCTCAAACATAT
GTATGGTAAAGGACCAGGTTTTTTGTTTTCCAGTCCCTTCACTTATCAATATGCATTCTTATTGCCGATGACAGGT
ATGGAGTTCACACTGTGTGCTGCCGACCCGGCAAGTTTGACAGCACCCAACTGGCCAGACTGTTCTGTAGGTTA
AGTCCATTGATCATGTACTTGGATATCACAGCAACATTGAAATGCTAAAAAGTTTTTAAACACTCTCAATTTCTA
ATTCACCATGTACAGACTGGTGAAAAAAGGTTGTTCACTGACCAGCACAAGTCTGCAGATCATCTTTG
AGTAGCACTGTTTTGGGGCCCTCGGTCTCTCTGAAGACCCTAGCAGAACTGATACCTACCTGTATCTCTTGTCT
CTCCTATTTGAGTTTCACTTCCAGAGAACTTGTCTTCAGCAAGAATGTGTCACTAGTAAGGACATCTCTAGCAT
TTCTCTAGCCTTCTTTTTCTGCTGCTCAAAAATAATCGTTACAAAGCTTAGGTTTAAAGCTGTATATGAAATATTT
ATGCGACTCTCAAACCTTTAAAGGAGTTGCTCCTTTGTTCAAAATTAATGTGTTAGATAAATTTGTGATTGTAT

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FIGURE 481B

GGGTGGCTTCATGAATTAAGAATTGAATTAATACAGACTTTTGTATAATAAAAAAAAAAAAAA

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FIGURE 482

MAAAEEGCSVGAEADRELEELLESALDDFDKAKPSPAPPSTTTAPDASGFPQKRSPGDTAKDALFASQEKFFQELF
DSELASQATAEF EKAMKELAE EEPHLVEQFQKLSEAAGRVGSDMTSQQEFTSCLKETLSGLAKNATDLQNSSMSE
EELTKAMEGLGMDEGDGEGNILPIMQSIMQNLLSKDVLPSLKEITEKYPEWLQSHRESLPPEQFEKYQE QHSVM
CKICEQFEAETPTDSETTQKARFEMVLDLMQQLQDLGHPPKELAGEMPPGLNFDLDALNLSGPPGASGEQCLIM

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FIGURE 483A

GAGAAGGGACCTTCAGGTCCAGGCAAAGGGGGAACCTTCTGTCTGTTGGGAACGAAAAAGAAAGAGGATTTACAGGGT
GGGGGGACAGAGGGGCAGCAGGAACCAGAAGGGAGACAGTGGCGGTCGCGGCGGGGCCGATCCGAGAGTTCCCTT
TAGAGAACGGAGCTCACGGGCGGGGAGGCCTCACCTGCTAGTAGGACGCAGAAAGACAGAAGGCCAAGGAGACCC
CGACTTCCCGGGTCAGCCCCAGAGCCACCCCTGCCGTAGCCATCTTGCCCTCTCTGCTGAGCGGAAGCCCCCGTT
CGGCTCCTGTCTGTTAGCGGCCTCTCTAGGCTACCACTGACACCGTCTCTGTGGCCCCGAGCCTAAGAGACCGGA
AGTTCTGTGTTTCCAGGCGCTTCCGGAACCGCGGGAGAGGGTCTGCTGACGTGGAGGCGTCCGAAGGGCAGCAGGG
TGTGTGGGGGCTCGGATTAAGACATCGGAGTCGGAGACCTGAGAGATGTTAACCAAATTTCGAGACCAAGAGCGCG
CGGGTCAAAGGGCTCAGCTTTCACCCCAAAAGACCTTGGATCCTGACTAGTTTACATAATGGGGTTCATCCAGTTA
TGGGACTATCGGATGTGCACTCTCATTGACAAGTTTGATGAACATGATGGTCCAGTGCGAGGCATTGACTTCCAT
AAGCAGCAGCCACTGTTTCGTCTCTGGAGGAGATGACTATAAGATTAAGGTTTGAATTACAAGCTTCGGCGCTGT
CTTTTACATTGCTTGGGCACTTAGATTATATTTCGCACCACGTTTTTTTTCATCATGAATATCCCTGGATTCTGAGT
GCCTCCGATGATCAGACCATCCGAGTGTGGAACCTGGCAATCTAGAACCTGTGTTTGTGTGTTAACAGGGCACAAC
CATTATGTGATGTGTGCTCAGTTCACCCACAGAAGACTTGGTAGTATCAGCCAGCCTGGACCAGACTGTGCGC
GTTTGGGATATTTCTGGTCTGAGGAAAAAAACCTGTCCCTGGTGCGGTGGAATCGGATGTGAGAGGAATAACT
GGGGTTGATCTATTTGGAACCTACAGATGCAGTGGTGAAGCATGTACTAGAGGGTCACGATCGTGGAGTAAACTGG
GCTGCCTTCCACCCCACTATGCCCTTATTGTATCTGGGGCAGATGATCGTCAAGTGAAGATCTGGCGCATGAAT
GAATCAAAGGCATGGGAGGTTGATACCTGCCGGGGCCATTACAACAATGTATCTTGTGCCGTCTTCCACCCTCGC
CAAGAGTTGATCCTCAGCAATTCTGAGGACAAGAGTATTCGAGTCTGGGATATGTCTAAGCGGACTGGGGTTCAG
ACTTTCCGAGAGACCATGATCGTTTCTGGGTCTAGCTGCTCACCTAACCTTAACCTCTTGCAGCAGGCCAT
GATGGTGGTATGATTGTGTTTAAGCTGGAACGGGAACGGCCAGCCTATGCTGTTTCATGGCAATATGCTACACTAT
GTCAAGGACCGATTCTTACGACAGCTGGATTTCAACAGCTCCAAAGATGTAGCTGTGATGCAGTTGCGGAGTGGT
TCCAAGTTTCCAGTATTCATATGTATACAATCCAGCAGAAAATGCAGTCTGCTTGTGTAAGAGCTAGCAAT
CTAGAGAATAGTACCTATGACCTGTACACCATCCCTAAAGATGCTGACTCCAGAATCCTGATGCGCCTGAAGGG
AAACGATCCTCAGGCCTGACAGCCGTTTGGGTGCTCGAAATCGGTTTGCTGTCTAGATCGGATGCATTGCTT
CTGATCAAGAATCTGAAGAATGAGATCACCAAAAGGTACAGGTGCCCAACTGTGATGAGATCTTCTATGCTGGC
ACAGGCAATCTCCTGCTTCGAGATGCGGACTCTATCACACTCTTTGACGTACAGCAGAAAGCGGACTCTGGCATCT
GTGAAGATTTCTAAAGTGAAATACGTTATCTGGTCAGCAGACATGTCACATGTAGCACTACTAGCCAAACACGCC
ATTGTGATCTGTAACCGCAAACCTGGATGCTTTATGTAACATTTCATGAGAACATTCGTGTCAAGAGTGGGGCTGG
GATGAGAGTGGGGTATTTATCTATACACAAGCAACCACATCAAATATGCTGTCAACCACTGGGGACCACGGGATC
ATTGCAACTCTGGATTTACCCATCTATGTCACACGGGTGAAGGGCAACAATGTATACTGCCTAGACAGGGAGTGT
CGTCCCCGGGTACTCACCATGATCCCACTGAGTTCAAATTCAGCTGGCCCTGATCAACAGAAAATATGATGAG
GTACTGCACATGGTGAGGAATGCCAACTAGTTGGCCAGTCTATTATTGCTTATCTCCAGAAGAAGGGCTATCCT
GAAGTGGCACTGCATTTTGTCAAGGATGAGAAACTCGCTTTAGTCTGGCACTGGAGTGTGGAACATTGAGATT
GCTCTGGAAGCAGCCAAAGCACTGGATGACAAGAAGCTGTGGGAAAAGCTGGGAGAAGTGGCCCTGCTGCAGGGG
AACCACCAGATTGTGGAAATGTGCTATCAGCGTACCAAAACTTTGACAAAACCTTCCCTTCTGTATCTTATCACT
GGCAACTTAGAAAACTTCGCAAGATGATGAAGATTGCTGAGATCAGAAAGGACATGAGTGGCCACTATCAGAAT
GCCCTATACCTGGGTGATGTGTCAGAGCGTGTGCGGATCCTGAAGAAGCTGTGGACAGAAGTCCCTGGCCTATCTC
ACAGCTGCTACCCATGGCTTAGATGAAGAAGCTGAGAGCCTAAAGGAGACATTTGACCCAGAGAAGGAGACAATC
CCAGACATTGACCCTAATGCCAAGCTGCTCCAGCCACCTGCACCTATCATGCCATTGGATACCAATTGGCCTTTA
TTGACTGTATCCAAAGGATTTTTTGAAGGCACCATTGCCAGCAAAGGGAAGGGAGGAGCACTGGCTGCTGACATT
GACATTGACACTGTTGGTACAGAGGGCTGGGGAGAGGATGCAGAGCTGCAGTTGGATGAAGATGGGTTTGTGGAG
GCTACAGAAGGTTTGGGGGATGATGCTCTTGGCAAGGGACAGGAAGAAGGAGGTGGCTGGGATGTAGAAGAAGAT
CTGGAGCTCCCTCCTGAGCTGGATATATCCCTGGGGCAGCTGGTGGGGCTGAAGATGGTTTCTTGTGCCCCCA
ACCAAGGGAACAAGTCCAACCTCAGATCTGGTGTAAATACTCTCAGCTTCCAGTTGATCACATCCTGGCAGGCTCT
TTCGAAACAGCCATGCGGCTCCTTCATGACCAAGTAGGGGTAATCCAGTTTGGCCCTACAAGCAACTGTTCTTA
CAGACATACGCCCCAGGCGCACAACTTATCAGGCTCTGCCCTGCCTACCCTCCATGTATGGCTATCCTAATCGC
AACTGGAAGGATGCAGGGCTGAAGAATGGTGTACCAGCTGTGGGCCTGAAGCTTAATGACCTCATCCAACGGTTG
CAGCTGTGCTACCAGCTCACCACAGTTGGCAAATTTGAGGAGGCTGTGGAAAATTCGGTCCATCCTTCTCAGT

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FIGURE 483B

GTGCCACTTCTTGTTGTGGACAATAACAAGAGATTGCAGAGGCCAGCAGCTCATCACCATTGCGGTGAGTAC
ATTGTGGGTTTGTCCGTGGAGACAGAAAGGAAGAAGCTGCCCAAAGAGACTCTAGAACAGCAGAAGCGCATCTGT
GAGATGGCAGCCTATTTACCCACTCAAACCTGCAGCCTGTGCACATGATCCTGGTGCTGCGTACAGCCCTCAAT
CTGTTCTTCAAGCTCAAGAACTTCAAGACAGCTGCCACCTTTGCTCGGCGCCTACTAGAACTCGGGCCCAAGCCT
GAGGTGGCCCAACAGACCCGAAAAATCCTGTCTGCCTGTGAGAAGAATCCACAGATGCCTACCAGCTCAATTAT
GACATGCACAACCCCTTTGACATTTGTGCTGCATCATATCGGCCCATCTACCGTGGAAAGCCAGTAGAAAAGTGT
CCACTCAGTGGGGCCTGCTATTCCCCTGAGTTCAAAGGTCAAATCTGCAGGGTCACCACAGTGACAGAGATTGGC
AAAGATGTGATTGGTTTAAGGATCAGTCCTCTGCAGTTTCGCTAAGGCCCCCTTTGTGTGCATGGGTCAGTCACC
ATATGTTCCCCCAGAGAATGTGTCTATATCCTCCTTCTAACAGCACCTTCCCCCTGCAGCTACTCTTCAGATCT
GGCTCTCTGTACCCTAAAACCTAGTATCTTTTTCTCTTCTATGGAAAATCCGAAGGTCTAAACTTGACTTTTTTG
AGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTTAATTATTTTAAGGAACAAA
TGAAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTACGGTGGGCAGATCAT
CTGAGGCCAGGAGTTCGAGACCTGCCTGGCCAACATGGCAACACCCCGTCTCTAATAAAAAATATAAAAAATTAGCC
TGGCATGGTAGCATGCGCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTAGGAGGT
GGAGGTTGCATTCAACTGAGATCATACCATTTCATTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAA
AAAAAAGGAAAACCTCTGTGATGGACATTTGTTTAGTAAATCCCTTCAGTATTTATCCCTCCTTTCCCCACAGCA
GCTTTCTTTCCTGTCAACTAGAAAGGAGCAGGATGTAATAAATACATTTTGGTGTGACTAGGCCACACCAACTCT
TAATCATCTCCCATTTTCCTTAGACATTTAAATTTCAAGGCAGGTACCTCTGTGTACTCAGAAATTTGAAGAAG
TTATTTGGTTTTCCAAAATGCACACTGCGGGTTATTGATTGTTCCTTACAACCTATTGTTCTCATATTTCTCACA
CTAAATAAATCTCTATGAGAGCTTCTTG

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FIGURE 484

AGCTGCGGTGTTGTGCTGTGGGGAAGGGAGAAGGATTTGTAAACCCGGAGTGAGGTTCTGCTTACCCGAGGCCG
CTGCTGTGCGGAGACCCCGGGTGAAGCCACTGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACT
TGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACCTCAAAG
TGGTTCCAATGAATTCATTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCC

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FIGURE 485

GAAGGATTTGTAAACCCCGGAGTGAGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCC
ACTGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATT
AAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAGTGAAAATGACAACACATCTCAAGAACTC
AAAGAATCATACTGTCAAAGACAGGGCGTTCCAATGAATTCATTCAAGTTTCTCTTTGAGGGTCAGAGAATTGCT
GATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAATGGGGGGT
CATTCAACAGTTTAGATATTCTTTTATTTTTTTCTTTCCCTCAATCCTTTCTCATTTTTAAAAATAGTTCTT
TTGTAATGTGGTGTTAAAAACGGAATTGAAAACCTGGCACCCCATCTCTTTGAAACATCTGGTAATCTGAATTCTA
GTGCTCATTATTCAATTATTGTTTATTTTCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCCTCATATTAC
CCTCTCCTTTTTTATTGTGGTGATAAATAAGATTGACCAATGCAAGCGTTCATAATAACTTGCGAATTGGCCCTGA
TGTTCTAGCATGTGATTACTTCACT

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FIGURE 486

GT TTGCCAAAATCCCAGGCAGCATGGACCTCAGTCTTCTCTGGGTACTTCTGCCCCTAGTCACCATGGCCTGGGG
CCAGTATGGCGATTATGGATACCCATACCAGCAGTATCATGACTACAGCGATGATGGGTGGGTGAATTTGAACCG
GCAAGGCTTCAGCTACCAGTGTCCCCAGGGGCAGGTGATAGTGGCCGTGAGGAGCATCTTCAGCAAGAAGGAAGG
TTCTGACAGACAATGGAACCTACGCCTGCATGCCACGCCACAGAGCCTCGGGGAACCCACGGAGTGCTGGTGGGA
GGAGATCAACAGGGCTGGCATGGAATGGTACCAGACGTGCTCCAACAATGGGCTGGTGGCAGGATTCCAGAGCCG
CTACTTCGAGTCAGTGCTGGATCGGGAGTGGCAGTTTTACTGTTGTCGCTACAGCAAGAGGTGCCCATATTCTG
CTGGCTAACAACAGAATATCCAGGTCATGATGGTGAGGAAATGGACATGATTTCTTACAATTATGATTACTATAT
CCGAGGAGCAACAACCACTTTCTCTGCAGTGGAAAGGGATCGCCAGTGGAAAGTTCATAATGTGCCGGATGACTGA
ATACGACTGTGAATTTGCAAATGTTTAGATTTGCCACATACCAAATCTGGGTGAAAGGAAAGGGGCCGGGGACAG
GAGGGTGTCCACATATGTTAACATCAGTTGGATCTCCTATAGAAGTTTCTGCTGCTCTCTTTCTCTCCCTGAG
CTGGTAACTGCAATGCCAACTTCCTGGGCCTTTCTGACTAGTATCACACTTCTAATAAAATCCACAATTAAACCA
TGTTTCTCACTTTTTCACATGTTTCATAGCAACTGCTTTATATGACTGATGATGGCTTCCTTGCACACCACATATA
CAGTGCGCATGCTTACAGCCGGGCTTCTGGAGCACCAGCTGCAGCCTGGCTACTGCTTTTTTACTGCAGAATGAAC
TGCAAGTTCAGCATAGTGGAGGGGAGAGGCAGAACTGGAGGAGAGGTGCAGTGAAGGTTCTCTACAGCTAAGCCT
GTTTGAATGATACGTAGGTTCCCCACCAAAGCAGGCTTTCTGCCCTGAGGGACATCTTCCCACTCCCCTGCTCC
ACATGAGCCATGCATGCTTAGCAATCCAAGTGCAGAGCTCTTTGCTCCAGGAGTGAGGAGACTGGGAGGTGAAAT
GGGGAAATGGAAGGGTTTGGAGGCAGAGCTGAAAACAGGGTTGGAAGGATTTCTTGAATTAGAAGACAAACGTTA
GCATACCCAGTAAGGAAAATGAGTGCAGGGGCCAGGGGAACCCGTGAGGATCACTCTCAAATGAGATTAAAAACA
AGGAAGCAGAGAATGGTCAGAGAATGGGATTAGATTGGGAACTTGTGGGGATGAGAGTGACCAGGTGAACTGG
GAAGTGGAAAAAGGAGTTTGAAGTCACTGGCACCTAGAAGCCTGCCACGATTCTTAGGAAGGCTGGCAGACACCC
TGGAACCTTGGGGAGCTACTGGCAAACCTCTCCTGGATTGGGCCTGATTTTTTTGGTGGGAAAGGCTGCCCTGGGG
ATCAACTTTCTTCTGTGTGTGGCTCAGGAGTTCTTCTGCAGAGATGGCGCTATCTTTCCTCCTCCTGTGATGTC
CTGCTCCCAACCATTTGTACTCTTCATTACAAAAGAAATAAAAAATATTAACGTTT

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FIGURE 487

MDLSLLWVLLPLVTMAWGQYGDYGYFYQQYHDYSDDGWVNLNRQGFSYQCPQGQVIVAVRSIFSKEGSDRQWNY
ACMPTPQSLGEPTECWWEIINRAGMEWYQTCNNGLVAGFQSRVFESVLDREWQFYCCRYSKRCPYSCWLTTEYP
GHYGEEMDISYNYDYYIRGATTTFSAYERDRQWKFIMCRMTEYDCEFANV

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FIGURE 488

AGAGGAAGCCAAGAACGGTGAAAAGGCCAGGCGGAGTTCAGAGGAGGTGGACGGCCAGCACCCGGCCCAAGAGGA
GGTCCCGGAATCGCCCCAGACCTCTGGCCCAGAGGCAGAAAATAGGTGTGGGAGCCCCAGGGAGGAAAAGCCAGC
TGGAGAGGAAGCAGAGATGCGAAAAGGCTACAGAGGTGAAGGGGGAGAGGGTGCAAAATGAAGAGGTGGGACCTGA
ACATGACAGCCAAGAAACAAAGAAGCTGGAGGAGGGAGCTGCAGTGAAGGAGACCCCCACAGTCCCCCTGGAGG
AGTGAAGGGCGGAGATGTCCCCAAGCAGGAAAAAGGCAAGGAAAAACAACAGGAGGGGGCAGTGTCTCGAGCCAGG
CTGCAGCCCCCAGACCGGCCCTGCCCAGCTGGAGACCAGCAGTGAAGTCCAGAGCGAGCCAGCAGTCCCCAAGCC
GGAGGATGACACTCCTGTCCAGGACACTAAAATGTGAAGAACAGCTCATTGTGCCCCAGTGATGAAGTTGCTGGA
CACATCTCTTTGAGGTAGCAGCAACAGTTGTAGCAGCAGCAGACGAAGCCATTGCAGAGGCAGAATATGCTGAG
TGTCTGGAGTCAGCCTGAAGACACAGGGTGGATTATTTCTGGCCTCCACACCAAACGTTCCCTTGAGATGGAG
ACTGAATCTGAGGGCAGCAGACTTTTATCAGCTTGAGTTTATGTCAATTTGATGGACTTGGTTCAACAACAAGAAC
TTACTTAAACAATGTACTGTGGTGATGAGTCCAGGGGCAGTGGTCAGCCTGTGGAGCCCTGGATGCTATCCAC
ACCCACCTATCCCTGCAGCTAATTTAGCTGATCTCTAATTTAACTGAGCTCTAATTTAGCTGATCAGATTTTGCT
TGGGTAAAGTTCCCTTTTAAATGTTCTAAAGTGTTTACGGTTCTCAAAATATCAGTTAAAACTAATTTTAGGTGGC
CATAAACATAAAATAGAAACCCCTGTAAGTTACAGAAGACCCTAAATTGTATCAAAACCCCTAGAGACAACTTTTCA
ATTTGATCCAAATTTGAACTGGCCAACCAGTCTTTAAACACTGGACTAGAAGAGATAATGATTGAAACATTTAA
AAAAAAAAGTGCTCCATTCGCAGGAGCTTTTCTGTCTGTGGTTTTCCAGTTGGTGACCACCATGGGAGGTGCG
CTGGCTCGGCTCACTCCCTTCTCCACCCCTTGAGAATGTGGAGAACTCCCATGGAGAGGCAGAATGGCAGGAGGT
TTCATGTCCCGCGTTGCATCTCCTCCTGAAAGAAAAGCAGTGATACCTGAATAATGCTGGCTCTCCGATTGATCC
TGTGAGGATGAATTTGCATTTCCAGAATCCTTGAGCATGGATTAGATGTTTCTGGGAGGTGCCTTGAGTACCAT
TATGTGCAAGCTACATAATTAAACATTTTTCTTAGTTTTCCCTGGGAAGCTTTTCTTGACTCACAGCCAGGTTT
TTCTGCCCCAACACAAAAGGAGTGAGTTGGGGTCTTTAGTCTCTTCTTATTGGGTAGCTCTTGCTTTAATATTCTG
TTTGGTGAGTGTAAGGGATTCTGCAAGGGACAGGGGGCCTGACTACCCAGTCTTGACTTGTATCCTCTCCCCTC
TTCATACACTCCTGCTGAAAAATGTTAATCCAAATACACATTTAACTTAGGGTCGGTCCTTATTCTGATTTGAG
TATTTTAATGTCTCAGTGTGCTGATTTGGTAGTTGGAAGAATTATTCTTCTGGAGGTCTGTTAGACTACATCCTA
CACTGACTTCAGAAAACAGTCTGTCAGACAAAAGGCCTTATGTCACCACTGGTACCTCAGTTTCTCATCCCAT
TTACAGTTTTTCTAACTCCAGGGTAGTGTTTAGTGTTAATATTTGGGATATATTTTTTTTCAAACTGTTTTTAA
GTAGTTTGTAATTTGTAACAACTTGTAACCTGGTTGGGACTGATATTGTCATAGCTATGATAAACTTTGGATAT
TAGCAGAATTTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 489

MEKATEVKGERVQNEEVGPEHDSQETKKLEEGAAVKETPHSPFPGGVKGGDVPKQEKGKEKQQEGAVLEPGCSPQT
GPAQLETSSEVQSEPAVPKPEDDTPVQDTKM

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FIGURE 490

GGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCG
CAGCAGGGGCTACAGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAA
AGCTATGGAACCTATGGACAGCCCATTTGATGTCAGCTATACCCAGGCTCAGACCCTGCAATCTATGGGCAGACC
GCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCAGGCATACAGCCAGCCT
GTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCT
CAATCTGCATATGGCACTCAGCCTGCTTATCCAGCTTATGGGAGCAGCCAGTAGCCACTGCACCTACAAGACTG
CAGAATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAGGA
TATGGACAGAGTAAGTGCAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCC
TACCCTCCTACCAGCTATTCTCTACACAGCCAAGTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTAT
GGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCTGCCTCCCACTAGT
TACCCACCCCAAGTGTATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAG
AGTTCATTCTGACAGGACCACCCAGTAGCATGGGTGTGTTATGGGCAGGAGTCTGGAGGATTTTCCGGACTAGGA
GAGAACCGGAGCATGAGTGGCCCTGATAACTGGGGCAGGGGAAGAGGGGGATTGATCGTGGAGGCATGAGCAGA
GGTGGGCGGGGAGGAGGATGCGGTGGAATGGGCAGCGCTGGAGAGCAAGTTGGCTTCAATAAGCCTGGTGGACCC
ATGGATGAAGGACCAGATCTTGATCTAGGCCCACCTGTAGATCCAGATGAAGACTCTGACAACAGTGCAATTTAT
GTACAAGGATTAAATGACAATGTGACTCTAGATGATCTGGTAGACTTCTTTAAGCAGTGTGGGGTTGTTAAGATG
AACAAGAGAACTGAGCAACCCATGATCCACACCTACCTGGACAAGGAAACAAGAAAGCCCAAAGGTGATGCCACA
GTGTCCTGTGAAGACTCACCTACTGCCAAAGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCAAGGGAGCAAA
CTTAAAGTCTCTCTTGCTCGGAAGAGGCCTCCAGTGAACAGTATGCAGGGTGGTATGCCACCCCATGAGGGCAGA
GGGATGCCACCACCACTCTGCGGAGGTCCAGGAGGCCCAGGAAGTCTGGGGGACCCATGGGTACATGGGAGGC
CGTGGAGGAGATAGAGGAGGCCTCCCTCCAAGAGGACCCAGGGTTCCCGAGGGAACACCTCTGGAGGAGGAAAC
GTCCAGCACCAAGCTGGAGACAGGCAGTGTCCCAATCCGGGTGTGGAAACCAGAACTTCGCCTGGAGAACAGAG
AGCAACAAGTGTAAGGCTCCAAAGCCTGAAGGCTTCTCCCGCCACCCCTTCCCACCCCGGGTGGTGATCATGGC
AGAGGTGGCCCTGGTGGCATGTGGGGAGGAAGAGGTGGCCTCATGGATCATGGTGGTCCCGGTGGAATGTTTACA
GGTGGCTGTGGTAGAGACAGAAGTGGCTTCTGTGGTGGCTGGGCATGGACCGAGGTGGCTTTGGTGGAGGAAGAC
AAGGTGGCCCTGGGGGGCCCCCGGACCTTTGATGTAACCAATGGGAGGAAGAAGAGGAGGACGTGAAGGACCTGG
AAAAACGGATAAAGGCGAGCACTGTCAGGAGCGCAGAGATCAGCCCTACTAGATGCAGAGAACCCGCAGAGCTGC
ATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATAATGTTGGCCACA
ACATTATGATTATTCTTTCTGTACTTTAGTATTTTTTACCATTGTGTAAGAAACATTAAACAAGTTAAATGG
TA

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FIGURE 491

MGVYGQESGGFSGLGENRSMSPDNWGRGRGGFDRGGMSRGGRGGGCGGMGSAGEQVGFNKPGGPMDEGPDLDLG
PPVDPDESDNSAIYVQGLNDNVTLDLVDFFKQCGVVKMNRTEQPMIHTYLDKETRKPKGDATVSCEDSPTAK
AAVEWFDGKDFQGSKLKVS LARKRPPVNSMQGGMPPEHGRGMPPPLCGGPGGPGSPGGPMGHMGGRGGDRGGLPP
RGPQGSRGNTSGGGNVQHQAQDRQCPNPGCGNQNFARWTESNKCKAPKPEGFLPPPPPPGGDHGRGGPGGMWGG
RGGLMDHGGPGGMFRGGCGRDRSGFCGGWAWTEVALVEEDKVALGGPRTFDVTNGRKKRRT

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FIGURE 492

AACGAGGAGGAAGGAGAGAAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC
AGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGG
TTATACTACTCCAAGTGGCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCAC
CACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCACTCAGCCTGCTTATCCAGC
TTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAACAAGCCCACTGAGACTAGTCAACC
TCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAGGATATGGACAGAGTAAGTGCAGTTATCCCCAGGTACC
TGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCCCTCCTACCAGCTATTCTCTACACAGCCAAC
TAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTA
TGGTCAACAAAGCAGCTATGGGCAGCTGCCTCCCACTAGTTACCCACCCCAAAGTTGATCCTACAGCCAAGCTCC
AAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAGAGTTCATTCTGACAGGACCACCCAGTAGCATGGG
TGTTTATGGGCAGGAGTCTGGAGGATTTCCGGACTAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACTGGGG
CAGGGGAAGAGGGGGATTG

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FIGURE 493

AACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC
AGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACC
TATGGACAGCCCATTTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACT
TCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTGGGGGGCAGGCATACAGCCAGCCTGTCCAGGGGTAT
GGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATAT
GGCACTCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAAC
AAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCACCAAGCTGGAGACAGGCAGTGT
CCCAATCCGGGTTGTGGAAACCAGAAC'TTCGCCTGGAGAACAGAGAGCAACAAGTGTAAGGCTCCAAAGCCTGAA
GGCTTCCTCCCGCCACCCTTCCCACCCCGGGTGGTGATCATGGCAGAGGTGGCCCTGGTGGCATGTGGGGAGGA
AGAGGTGGC

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FIGURE 494

GGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGC
TTACAACACCCAGCCCCTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGG
ACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACTTCTTA
TGGACAGCCTCCCCTGGTTATACTACTCCAAGTGGCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCAC
TGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCAC
TCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAACAAGCC
CACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACTG
CAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCCTCCTACCAGCTA
TTCCTCTACACAGCCAACCTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGCAGCTGCCTCCAC
TAGTTACCCACCCCAAACCTTGATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCA
GCAGAGTTCATTCTGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACT
AGGAGAGAACCGGAGCATGAGTGGCCCTGAT

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FIGURE 495

TTTCCGGTGCTATGCCCCGGAAGCGGAAGTGCGATCTTCGGGCTGTCAGAGTTGGTCTGTTACTCGGTGGTGGCG
GAGTCTACGGAAGCCGTTTTTCGCTTCACTTTTCTGGCTGTAGAGCGCTTTCCCCCTGGCGGGTGAGAGTGCAGA
GACGAAGGTGCGAGATGAGCACTATGTTTCGCGGACACTCTCCTCATCGTTTTTATCTCTGTGTGCACGGCTCTGC
TCGCAGAGGGCATAACCTGGGTCCTGGTTTACAGGACAGACAAGTACAAGAGACTGAAGGCAGAAGTGAAAAAC
AGAGTAAAAAATTGAAAAAGAAGAAGGAAACAATAACAGAGTCAGCTGGTCGTCTATCAATGGTTCGAATGAAAT
CCATGTTTGCTATTGGCTTTTGTTTTACTGCCCTAATGGGAATGTTCAATTCCATATTTGATGGTAGAGTGGTGG
CAAAGCTTCCTTTTACCCCTCTTTCTTACATCCAAGGACTGTCTCATCGAAATCTGCTGGGAGATGACACCACAG
ACTGTTCCCTTCATTTTCTGTATATTCTCTGTACTATGTCGATTGACAGAACATTCAGAAGATTCTCGGCCTTG
CCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTTCTTGGCCCAACACCTCCTTCTGGGAAGTTCTCTTGAA
CTCAAGAACTCTTTATTTTCTATCATTCTTTCTAGACACACACATCAGACTGGCAACTGTTTTGTAGCAAGAG
CCATAGGTAGCCTTACTACTTGGGCCCTCTTTCTAGTTTTGAATTATTTCTAAGCCTTTTGGGTATGATTAGAGTG
AAAATGGCAGCCAGCAAACCTTGATAGTGCTTTTGGTCCTAGATGATTTTTATCAAATAAGTGGATTGATTAGTTA
AGTTTCAGGTAATGTTTATGTAATGAAAAACAAATAGCATCCTTCTTGTTTCATTTACATAAGTATTTTCTGTGGG
ACCGACTCTCAAGGCACTGTGTATGCCCTGCAAGTTGGCTGTCTATGAGCATTTAGAGATTTAGAAGAAAAATTT
ACAAGCCAAATACATGACATAAGATCAATAAAGAGGCCAAATTTTTAGCTGTTTTATGTACAAGGAGAGATCTGT
TTCATTTTGTTTTGCCGTATTTCTAGATATAAGTTTTTAGCATGGGCCAGGAAGGACTAAAATAAAAGTTTTTAAG
GTACTG

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FIGURE 496

MSTMFADTLLIVFISVCTALLAEGITWVLVYRTDKYKRLKAEVEKQSKKLEKKKETITESAGRQQKKKIERQEEK
LKNNNRDL SMVRMKSMFAIGFCFTALMGMFNSIFDGRVVAKLPFTPLSYIQGLSHRNLLGDDTTDCSFIFLYILC
TMSIRQNIQKILGLAPSRAATKQAGGFLGPPPPSGKFS

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FIGURE 497

AGACAGTTTTGAAGTTTTCAAAGACTGGCTCTGCTGTTAAGAAGTTGTACTTAAAGCGGAGGAGCTAAGCCACCT
GCCAAAATGTGCAAAGGACTTGCAGCTTTGCCCCACTCATGCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTG
GGAATTCTCCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCATTCCGTACAATGAGAAGCCAGAGAAAACCAGCC
AAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATTCCCTGGACAAACTCCTGCAGAACAACATAT
GGACTTGCCAGTTTCAAAGTTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCTGGATTGCCTGTGAG
GATTACAAGAAGATCAAGTCCCCTGCCAAGATGGCTGAGAAGGCAAAGCAAATTTATGAAGAATTCATTCAAACG
GAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAATGAAGAACCTGGTGGAAACCTTCCCTG
AGCAGCTTTGACATGGCCCAGAAAAGAATCCATGCCCTGATGGAAAAGGATTCTCTGCCTCGCTTTGTGCGCTCT
GAGTTTTATCAGGAGTTAATCAAGTAGTAATTTAGCCAGGCTATGAAATCATCCTGTGAGTTATTTCTCCATAA
TAACCTGCAATTTCCCATTAATCTACATATCTTCCACAGCAGCTTTGCTCAGTGATACCCACATGGGAAAAATC
CCAGGGGATGTTGCTTACTCTTTTTGCCCACACTGCTTTGGATACTTATCTACTGTCCGAAGGCCTTCTTTCCCC
ACTCAATTCCTTCCCTGCCCCTGTTATTAATTAAGATATCTTCAGCTTGTAGTCAGACCCAATCAGAATCACAGAAAA
ATCCTGCTTAAGGCAAAGAAATATAAGACAAGACTATGATATCAATGAATGTGGGTTAAGTAATAGATTTCCAGC
TAAATTGGTCTAAAAAAGAATATTAAGTGTGGACAGACCTATTTCAAAGGAGCTTAATTGATCTCACTTGTTTTA
GTTCTGATCCAGGGAGATCACCCCTCTAATTATTTCTGAACCTTGGTTAATAAAAGTTTATAAGATTTTTATGAAG
CAGCCACTGTATGATATTTAAGCAAATATGTTATTTAAATATTGATCCTTCCCTTGGACCACCTTCATGTTAG
TTGGGTATTATAAATAAGAGATACAACCATGAATATATTATGTTTATACAAAATCAATCTGAACACAATTCATAA
AGATTTCTCTTTTATACCTTCCTCACTGGCCCCCTCCACCTGCCCATAGTCACCAAATTCTGTTTTAAATCAATG
ACCTAAGATCAACAATGAAGTATTTTATAAATGTATTTATGCTGCTAGACTGTGGGTCAAATGTTTCCATTTTCA
AATTATTTAGAATTCTTATGAGTTTAAATTTGTAAATTTCTAAATCCAATCATGTAAATGAACTGTTGCTCC
ATTGGAGTAGTCTCCACCTAAATATCAAGATGGCTATATGCTAAAAAGAGAAAATATGGTCAAGTCTAAATGG
CTAATTGTCTATGATGCTATTATCATAGACTAATGACATTTATCTTCAAACACCAAATTGTCTTTAGAAAAAT
TAATGTGATTACAGGTAGAGGCCTTCTAGGTGAGACACTTTTAAGGTACACTGCATTTTGCAGAAAAAAAAAAAA
AAAAGTAATCTTTTAGCAACCCAGTATTCCTTCACTATTTGCTTCCTGCATTAGCAAATTTTACTTACAGTCA
AAAGTGCAGATTTATACTCCTGACGTGTCTCATTACAGCTAAATAATAGGCCATAGGACTTTTGGTAGGTTTAA
ACTTTTAATTCTGTATTTTCATGATTATAAGTCTTGCTAGAATTTTTCTAATCTTTAGTAGATTTGATTAAATAA
TGATTCACAGAATTTAGTAACAGAATCAAACCTAAGCCATGTATGAGGGTAATCGAGATGAGGATATTAACCTAAA
AGAAATAGGGTGATTTTTTAAAGGATTAATAAAATTCTGAAATGTTAAGTAG

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FIGURE 498

MCKGLAALPHSCLERAKEIKIKLGILLQKPD SVGDLVIPYNEKPEKPAKTQKTSIDEALQWRDSL DKLLQNNYGL
ASFKSFLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEEFIQTEAPKEVNIDHFTKDITMKNLVEPSLSS
FDMAQKRIHALMEKDSLPRFVRSEFYQELIK

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FIGURE 499

GACACCTTTTAAAATGCAGAACTAACTGAGGCATTTTCAGTAACTTTGCTTTCAAATCAATAAAGTCAAATGTATG
GAAACATTTTGTGCCCTACTCTCCATACCCTGTGTACTCAAATTCTCTACTGTATGAATTATGCTTTAAGTAGAA
TTCAGTGCCAAGGAGAACTTGGTGAAATAAATTATTTTAAATTTTTTTTTTATCCTTTACAAAGCCATGGATTTTA
TTTGGTTGATGTGTGCTCTGTACACAAGCCATTTCAATAGGATGGAGCTGTTAATTATTTTCCAAAGAGTAATAG
ACATGCAAAAGTTTCAATAAAACTGGGCCATTAACAAATAAATTAATAAACTAATAAGCATTCCCTTCTAGGTT
TTTGCCAACTGCCTATCCAATAACAAATTTGAGAATCGTTGAAAAAGCTAGTTATATTTTTCAGAGAAATGATTTT
CATTATTGAACTGTTCTCCCTAGCAGGCCATTTTCCCTTTTCCCTGGGAGTTTAGCAAGTTTAGGAGAGAATAG
TCATGAAAAGAAAGGGAAGAAAGGGGAGAAGGGAAGAGGTTAAAAAGTAAGTGCTCAGACCTATGAACGTAATCC
CTTTGCTAGAAATATTTAAGAGCAGCTCAGCTTGGTTGAACTGAGTTTTGTCATCTTCCATATTTGCAGGAAGG
TATTTTCTGACTTGCAATGCAGCTAGATGTAAAATTTTATTTTATCATCCTAGAAAGCCTTGACTAGAAAAATGA
ATAAATATTGAGGGTTTCCCTGTCCATATCTGGCTTGCATGTGCCAGAAAGCAGAGAATAGAAAATGTAATCTCCA
ACATCCAAGCATCGAAACCCAAGGGTAGGCAATTCTATGTAGGTTTTGGACATGAAGTTTGGTGCATCTTGGTT
TATGCTGGCTCAACTGCTATTAAACCTCTCTGGCTTATAGTCTCTTCATTTCTATTAGACAAGCACGTATCGAACA
CTTGCTTCGCACAAGGCTCTTTAGTTAACAATTTAGCAGCTACTGTTTGTGTTAAACACACTTTTACCAAATAG
GTTCTGAGGCAAACGAGAGCAATGACTATTTAAAGAAAGGCTTTCCCAGCATCACTTACACATCCCAAACTAAA
AAGATCAACTCTTCCAAGTGAAGAAAGACTCCTGGCTTTGAATGGAACTTACAGCAGAGAGTCACAGGCCACGG
CAACAACAACGACAACAACAACATTTGGAATATTATTCTCAACTCACGTTTTAATAATACATCTTAATTATTTT
TCTAGTAGAGAACTACAAATCAGCCTCTTCAACATTTATATACAGTTTAAATAAGCCTCTTGCAAGTTACTTGTT
CTCTCACCTGAGGTATTTTTTTTCCCTCCCCACCTTGCCCTGTTCCCTCCCTCTTCTCCCTTTGCAAGAGGAA
ATATTTAACATATTTGGGTCCAACCTTCAATAATGTAATAATTAATACATTAAAAGCATTAACTTCCTTTCTAGA
AAAATGCACAGGCTAAGGCATAGACAAAACAAAGAGAAATGCTGAGAAATTTGCCACTGGAGACAAGCAATCTGA
ATAAATATTTGCCAAAAGTTCTTTTTATGTATATAGTGTGAGGATTGAAGGAGCTATTTTTTTTTAATGTTGCA
ACTAGCAACTCATCTTCGGAAGACACAGCCAGGAGAATGAAGTAGAAGTGAAAGGTTTATAAATCCATTTGTAAG
CATTTATCCCATATATTTTAAATTCAAGAAAAATTGTGTTTATCTTTAGAATTTTGTATTCAATACTTTATGTAC
TATGTGACTCATGCTTCTGGATAAATAAAGCACCAAAATATGTATCTGTAACCACAATCACACATATTATATAA
TATATATCTATATAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 500

MYGNILCPTLHTLCTQILYCMNYALSRIQCQGELGEINYFNFFIYKAMDFIWLMCALYTSHFNRMELLIIFQR
VIDMQKFQ

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FIGURE 501

AGCGGCCCCCTGCAGAGGCAGGTCCACCTGAGAGGCCGGCCGGCCTCCCAGCCCCTGTCATCCGGGGGCATCACCT
ACTATAAAGCCAAGGTCTCTGAAGAAGAGAATGACATTGAAGAGCAGCAAGATGAGTTTTTCAGCGGTGACAATG
GAGTGGATTTGCTGATTGAAGATCAGCTCCTGAGACACAACGGCCTGATGACCAGTGTCAACCGGAGGCCTGCAG
CCACCCGTCAGGGACACAGCACTGCTGTGACAAGCGACCTGAACGCTCGGACCGCACCCCTGGTCCTCAGCACTGC
CACAGCCCCTCGACCTCAGATCCCAGCATCGCCAACCATGCCTCAGTGGGACCAACACTCCAAACAACCTCGGTGT
CTCCAGATCCCACAAGGGAGTCAGTCCTGCAGCCTTCTCCTCAGGTACCAGCCACCACTGTGGCCACACAGCCA
CCCAGCAACCAGCAGCCCCAGCTCCTCCGGCAGTGTCTCCAGGGAGGCATTGATGGAAGCTATGCACACAGTCC
CAGTGCCTCCCACCACAGTCAGAACAGACTCGCTGGGGAAAGATGCTCCTGCTGGGTGGGGAACAACCCCTGCCA
GCCCCACGCTGAGCCCCGAAGAAGAAGATGACATCCGGAATGTATAGGAAGGTGCAAGGACACTCTCTCCACAA
TCACGGGGCCGACCACCCAGAACACATATGGGCGGAATGAAGGGGCCTGGATGAAGGACCCCTGGCCAAGGATG
AGCGGATTTACGTAACCAACTATTACTACGGCAACACCCTGGTAGAGTTCCGGAACCTGGAGAACTTCAAACAAG
GTCGCTGGAGCAATTCTACAAGCTCCCGTACAGCTGGATCGGCACAGGCCACGTGGTATACAATGGCGCCTTCT
ACTACAATCGCGCCTTACCCGCAACATCATCAAGTACGACCTGAAGCAGCGCTACGTGGCTGCCTGGGCCATGC
TGCATGACGTGGCCTACGAGGAGGCCACCCCTGGCGATGGCAGGGCCACTCAGACGTGGACTTTGCTGTGGACG
AGAATGGCCTATGGCTCATCTACCCGGCCCTGGACGATGAGGGCTTCAGCCAGGAGGTCATTGTCTGAGCAAGC
TCAATGCCGCGGACCTGAGCACACAGAAGGAGACCACATGGCGCACGGGGCTCCGGAGGAATTTCTACGGCAACT
GCTTCGTCATCTGTGGGGTGTCTGTATGCCGTGGATAGCTACAACCAGCGGAATGCCAACATCTCCTACGCTTTCG
ACACCCACACCAACACACAGATCGTCCCCAGGCTGCTGTTCGAGAATGAGTATTCTTATACGACCCAGATAGACT
ACAACCCCAAGGACCGCCTGCTCTATGCCTGGGACAATGGCCACCAGGTCACTTACCATGTATCTTTGCCTACT
GACACCCCTTGTCCCCACAAGCAGAAGCACAGAGGGGTCACTAGCACCTTGTGTGTATGTGTGTGCGCGCACGTGT
GTGTAGGTGGGTATGTGTTGTTTAAAAATATATATTATTTGTATAATATTGCAAATGTAAAATGACAATTTGGG
TCTATTTTTTTTATATGGATTGTAGATCAATCCATACGTGTATGTGCTGGTCTCATCCTCCCCAGTTTATATTTTT
GTGCAAATGAACCTTCTCCTTTTGACCAGTAACCACCTTCCTTCAAGCCTTCAGCCCCTCCAGCTCCAAGTCTCAG
ATCTCGACCATTGAAAAGGTTTCTTCATCTGGGTCTTGCAAGGAGGCAGGCAACACCAGGAGCAGAAATGAAAGAG
GCAAGAAAGAAGTGCTATGTGGCGAGAAAAAAGTTTTAATGTATTGGAGAAGTTTTAAAAAACCCAGAAAAACG
CTTTTTTTTTTTAATAAAGAAGAAATTTAAATC

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FIGURE 502

MTSVTRRPAATRQGHSTAVTSDLNARTAPWSSALPQPSTSDPSIANHASVGPTLQTTSVSPDPTRESVLQPSQV
PATTVAHTATQQPAAPAPPAVSPREALMEAMHTVPVPPTTVRTDSLKGDAPAGWGTPASP TLSPEEEDDIRNVI
GRCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYYGNTLVEFRNLENFKQGRWSNSYKLPYSWIGT
GHVVYNGAFYYNRAFTRNIIKYDLKQRYVAAWAMLHDVAYEEATPWRWQGHSDVDFAVDENGWLWIYPALDDEGF
SQEVIVLSKLNAADLSTQKETTWR TGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHNTQIVPRLLFEN
EYSYTTQIDYNPKDRLLYAWDNGHQV TYHVIFAY

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FIGURE 503

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACCATGAAGCTGGGCTGTGTCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAAGCTGGCTTCCAG
GTCAAGGCCTACACTTTTCAGTGAACCCCTCCACCTGATTGTGTCTATGACTGGCTGATCCTCCAAGGTCCAGCC
AAGCCAGTTTTTTGAAGGGGACCTGCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCTGGGATCCCAGAAACAGCATCTGTTGTG
GCTATCACAGTCCAAGAACTGTTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
CCCATGACCCCTGAGTTGTGACACAAAGTTGCCCTGCAGAGGTGAGCTGCCCCGCTCCTCTTCTCCTTCTACAAG
GATGGAAGGATAGTGAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGGAACAGAGCCCCAGCTAGAGATCAGAGTGCAG
GGTGCTTCCAGCTCTGCTGCACCTCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAAGTCTCCT
GAGGAGGCCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAATAGAAAG
TAAACAGTTTCATCCATGATCTCACTTAACCACCCCAATAAATCTGATTCTTTATTTTCTCTTCTCTGCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGAATTGAATACAGCAG
TCTCAACTGGGGGCAATTTTGCCCCCAGAGGACATTGGGCAATGTTTGGAGACATTTTGGTCATTATACTTGGG
GGGTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCACAAACGAAAAATAATCTGGCCCCAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT
CATTCAGCTATTCTTACTGACATAACCAGTCTTTAGCTGGTGCTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCACAAAAACAGCTGTCGCCAACACCGACTCTG
TCGTTGCCCTTGATCTTGAACCTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTTGTTTGTAAAAA
AAAAA

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FIGURE 504

MKLGCVLMAWALYLSLGVLWVAQMLLAASFETLQCEGPVCTEESSCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRCAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSAAPTTLNPAPQKSAAPGTAPEEAPGPLPPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

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FIGURE 505

AAGCAGTGGTATCAACGCAGAGTGCCCATACGGCCGGGGGTGGCATCATGTGGCAGCTGCTCCTCCCAACTGCT
CTGCTACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCCAAAGGCTGTGGTGTTCTGGAGCCTCAATGG
TACAGGGTGCTCGAGAAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAG
TGGTTTCACAATGAGAGCCTCATCTCAAGCCAGGCCTCGAGCTACTTCATTGACGCTGCCACAGTCGACGACAGT
GGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTCCATATCGGCTGGCTG
TTGCTCCAGGCCCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTACCTGAGGTGTCACAGCTGGAAGAACACT
GCTCTGCATAAGGTCACATATTTACAGAATGGCAAAGGCAGGAAGTATTTTCATCATAATTCTGACTTCTACATT
CCAAAAGCCCACTCAAAGACAGCGGCTCCTACTTCTGCAGGGGGCTTGTGGGAGTAAAAATGTGTCTTCAGAG
ACTGTGAACATCACCATCACTCAAGGTTTGGCAGTGTCAACCATCTCATCATTCTTTCCACCTGGGTACCAAGTC
TCTTTCTGCTTGGTGATGGTACTCCTTTTTTGAGTGGACACAGGACTATATTTCTCTGTGAAGACAAACATTGGA
AGCTCAACAAGAGACTGGAAGGACCATAAATTTAAATGGAGAAAGGACCCTCAAGACAAATGACCCCATCCCAT
GGGGGTAATAAGAGCAGTAGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCAACCCTATCATCCTCAGGCCTC
TCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCCTTATCCAACCTCTCGACTTTTCTTGGTCTCCAGT
GGAAGGGAAAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGTÀGCTGCATTCTAGAAATTGAAGTTTCAG
AGCTACACAAACACTTTTTTCTGTCCCAACCGTTCCCTCACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 506

MWQLLLPTALLLLVSAGMRTE¹DLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYF
IDAATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKV²TYLQNGKGRKY
FHHNSDFYIPKATLKDSGSYFCRGLVGSKNVSETVNITITQGLAVSTISSFFPGYQVSFCLVMVLLFAVDTGL
YFSVKTNIRSSTRDWKDHKFKWRKDPQDK

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FIGURE 507

ATGGCGGACGGGACCTGTCAGGACGTGGCCATCGTGGGCTACAAGGACTCGCCCTCCATCTGGGCGCGCGTCCCC
GGGAAAACCTTCGCCAACATCGCGCCAGCTGAGGTTGGTGTCTGGCTGGCAAAGACAGGTCAAGATGGGGAATT
TTGCATGGATCTTCGTATACCAAGAGTACCGGTGGAGCCCCACCTTCAATGTCACTGTCACCAAGACTGACAAG
ACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCC
CACCTTCGGCGTTCCCAGTACTTGA

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FIGURE 508

MADGTCQDVAIVGYKDSPSIWAAVPGKTFANIAPAEVGVLAGKDRSRWGILHGSSYTKSTGGAPTFNVTVTCTDK
TLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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FIGURE 509

ATGGTTGTAGGATTCACTGAGTTTGAATCCTTCCACCCAGGCCTTGCTGCTGCAGCCTCTGCCAGAGCCAGCTCC
TGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATCCTGGGAGTCACTGAAGCCTTTAAGAGGGACATCAAT
AGCAAAAAGATGAATCTGGGAGTTGGGATGATAATGGGAAGCCGCTTTGCCAGTGGTGATGGTGATAAGGATGCC
TGGGCTCTGCACCACTTCATCGAACAGGGCATTAAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGCTTA
TATGGTGAGCATGTAGGAGCCTTCACTGTGGTCTGCAAAGATGCAGATGAAGCCAAAAGGGTAGAGTCACAGTTG
AAGATCTTGATTAGTCCCATGTATTCCAACCTCTCCCCTCAATGGGGCCCAGATTGCTTCTACCATTCCAAACACC
CCAGTTGGTTTGAAGGTCTGGGTCATGGGAGGCCTACATGATCATCCTCAGGTTATGAGTGACGAGAAAGAGACA
ACACTGAGAGCAGTGGCTGTCAAGTACTGGATCAGAGTCCGGCTGTGCCACTTCCTTGAAACATTTCATGTCTCCG
GACCTTACTGGCTGGAAAAAACTGCAGCAGGAAGATGGCCTTACCTCACTTCTAGCTTCCAAGTCTCACAAGAGA
GCACAGGCAGAACCGAAGCCACATCCAGGACCTGGGCTGAGAACATCTGGCACATGGAGCCTGTAG

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FIGURE 510

MVVGFTEFESFHPGLAAAASARASSWTHVEMGPPDPILGVTEAFKRDINSKMN LGVGMIMGSRFASGDGDKDA
WALHHFIEQGINVCLCQSYAKNMGLYGEHVGAF TVVCKDADEAKRVESQLKILISPMYSNSPLNGAQIASTIPNT
PVGLKVWVMGGLHDHPQVMSDEKETTLRAVAVKYWIRVRLCHFLETFMSPDLTGWKKLQQEDGLTSLLASKSHKR
AQAEPKPHPGPGLRTSGTWSL

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FIGURE 511

CGGTTGCTTGCTGTCCCAGCGGCGCCCCCTCATCACCGTCGCCATGCCCGGAGGTCTGCTTCTCGGGGACGTGGC
TCCCAACTTTGAGGCCAATACCACCGTCGGCCGCATCCGTTTCCACGACTTTCTGGGAGACTCATGGGGCATTCT
CTTCTCCCACCCCTCGGGACTTTACCCCAAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAAGCTGGCACCAGAATT
TGCCAAGAGGAATGTTAAGTTGATTGCCCTTTCAATAGACAGTGTGAGGACCATCTTGCCCTGGAGCAAGGATAT
CAATGCTTACAATTGTGAAGAGCCACAGAAAAGTTACCTTTTCCCATCATCGATGATAGGAATCGGGAGCTTGC
CATCCTGTTGGGCATGCTGGATCCAGCAGAGAAGGATGAAAAGGGCATGCCTGTGACAGCTCGTGTGGTGTGTTGT
TTTTGGTCCTGATAAGAAGCTGAAGCTGTCTATCCTCTACCCAGCTACCACTGGCAGGAACCTTGATGAGATTCT
CAGGGTAGTCATCTCTCTCCAGCTGACAGCAGAAAAAGGGTTGCCACCCAGTTGATTGGAAGGATGGGGATAG
TGTGATGGTCCTTCCAACCATCCCTGAAGAAGAAGCCAAAAAAGCTTTTCCCGAAAGGAGTCTTCACCAAAGAGCT
CCCATCTGGCAAGAAATACCTCCGCTACACACCCAGCCTTAAAGTCTCTTGGAGAAGTTGGTGCTGTGAGCCAGA
GGATGTCAGCTGCCAATTGTGTTTTCTGCAGCAATTCCATAAACACATCCTGGTGTCTACAGCCAAGGTTTT
TAGGTTGCTATACCAATGGCTTATTAAATGAAAATGGCACTAAAAAGTTTCTTGAGATTCTTTATACTCTCTGCCT
TCAGCAATCAATTCCATTTCATACATCAGCACTCTGCTGGTTCTGTTTGAAATATGTTCTGTATTTAAACTCAAA
TCTTGTTGGATCTCTGCAGGGCTTGTGACCAATGAAGTCATATTTGTTGATGGTTGACAAAGCTTGCTTCACTCC
ATCAGAGAATGACTATCAATTTTTTTTTTAAGTGTCTATCACGTCCTCTCCTGTCACCCATTTTGAAGAGTGGCA
GAACTTGAAAGTTCAACTTCCTCTGTAAATATCCAAGTATAAAGCCAGGAACCTTCTAGAATAACCCAGATGCGCT
TTAATTTTTTTTAATATGTTTTGATCACAGAACTTCTAGAATAACCCAGATGCTCTTTCATATTCTTTTAATACA
TCTTGATCACAGCTGGGGGAAAAAAGCTTTTTAATTCTGTACCTTCCTAGTAGATAAGTGAAGAGCAGGGAAAG
AGACCTTTAAATATTTTGCTATAAAAAAATTTGTGATAAGTTTCTATCAAAATGGGGAGATTGCAGAAAAGGCTT
CCCTTGGCTCCCAAGGAGGTGTAGCAGGTGTGAGCAATATTAGTGCCATGTGCCTTTCACACAGGGTTTGCATTT
ATCAGTCTGTTTTCCGATGATGTGTACATGAAAGAGTACACCATGTGAAGAGAAGAGAGAATGATTGAAAATGTT
TTAGTATAGAACTCTTCTTGCAAGTGGGTTGCTATTTTCTAGATTTTACTTTTTAGGGAACAAATAAAATCCTTT
GTT

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FIGURE 512

MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPDFTPVCTTELGRAAKLAPEFAKRNVKLIALSIDS
VEDHLAWSKDINAYNCEEPTKLPFPPIIDDRNRELAILLGMLDPAEKDEKGMFVTARVVFVFGPDKKLSILYP
ATTGRNFDEILRVVISLQLTAEKRVATPVDWKDGDSVMVLPTIPEEEAKKLFPKGVFTKELPSGKKYLRYTPQP

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FIGURE 513

AGAGACCGTCCGAGGTAATTGTCTGCCACGAGTGCACATTCTGAAAACAGGAGATTTTAGTTCCTAAAAATGGGA
AGAACCTACATTGTAGAAGAGACTGTTGGCCAGTATCTTTCAAACATAAATCTCCAAGGAAAGGCTTTTGTCTCT
GGCCTTTTAAATAGGACAGTGTTTCGTACAAAAGGATTATGTGATTCTTGCCACTAGAACGCCACCCAAAGAGGAG
CAAAGTGAGAACCTCAAACATCCCAAAGCTAAGTTGGATAACTTGGATGAAGAATGGGCCACAGAACATGCCTGC
CAGGTATCCAGAAATGCTACCAGGGGGACTTTTAGTTCTTGGAGTATTTATTATTACTACTTTAGAACTGGCAAAT
GATTTTCAAATGCCCTGCGTAGACTAATGTTTGCTGTGGAAAAGTCTATAAATAGAAAGAGATTGTGGAATTC
ACAGAGGAGGAAGTCTCAGAACGAGTGACACTTCACATTTGTGCTTCTACAAAAAAATATTTTGTGCAACTTAT
GATATCCATGATCCAAAGAGTTCAGCAAGACCAGCAGATTGGAAGTATCAAAGTGGATTATCATCCTCATGGCTT
TCTTTAGAGTGTACAGTTCACATTAATATTACATCCCACTTTCTGCTACTTCTGTCAGCTATACTCTGGAGAAA
AATACAAAGAATGGACTTACACGCTGGGCCAAGGAAATAGAAAATGGTGTATTATTGATTAATGGACAAGTTAA
GATGAAGATTGTGACCTATTAGAAGGACAGAAAAATCTTCTAGAGGAAATACTCAAGCAACTAGTCATTCTTTT
GATGTCAGAGTGCTAACGCAAGTTCCTGAATTCAGACCACAGATCCACAGCCACAGTCCAGATATGTAGCGGT
TCTGTAAACCTTAAGGGTGCTGTGAAATGCAGAGCTTATATCCACAGCAGTAAACCCAAAGTTAAAGATGCTGTG
CAGGCAGTAAAGAGGGATATATTGAACACAGTTGCTGATCGTTGTGAAATGCTATTTGAGGATCTGCTTTTGAAT
GAAATTCCAGAAAAAAAAGATTCTGAAAAAGAGTTCCACGTCCTCCCTTATCGAGTCTTTGTTCCCTTTCCTGGA
TCCACTGTAATGTTGTGTGATTATAAATTTGACGATGAGTTCAGCTGAAGAAATCAGGGACCATTTTATGGAGATG
TTGGATCACACAATTCAAATAGAAGATTTGGAAATTGCAGAGGAAACAAACACAGCTTGTATGAGTTCTTCTATG
AATAGTCAAGCTTCATTGGACAACACAGATGATGAACAACCAAAACAACCAATTAAACTACAATGTTATTGAAA
AATCAGCAAAACATAGGTGTGATTGCAGCATTACAGTTGCAGTCCTTGCTGCGGGTATCTCCTTTTCACTTCTC
AGTGATTAGGGTGAGGCACAAAGAGTTTCTTGATCATCCAGAGAACATTGACAGACAATTATGAATAATAAAGAT
GTTAACAATCCATCTGTATTTAAACACTAGCAGCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGAT
TAAAATGAAATCACAAGCTGCCTTGTTAGCCTGCTTTACATTGTAGGTGGCCCGCATTTCCAGAAATAACGTTA
TGCATCTAGATGGAAGCTGCATGTAACAAATCATTATTATCTATTTTAAAAGCTTCAAATGATGGGATATGAT
CATAGATTTTAGTCTTACTAATCTGAATCACATATTAATCAGGACATTAAAACTTTAACAGAGGCATGATGGCT
CACACGTATAATCCTAATGCTTTGAGAGGCTGAGGTAGGAGCATCACCTGGGGCTGGGAGGGAGTTGGAGACCAG
CCTGGATGACATAATGAGATTCTGTCTCTACTGGAAAAA

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FIGURE 514

MLPGGLLVLGVFIITTTLELANDFQNALRRLMFAVEKSINRKRLWNFTTEEVSERVTLHICASTKKIFCRTYDIHD
PKSSARPADWKYQSGLSSSWLSLECTVHINIHIPLSATSVSYLEKNTKNGLTRWAKEIENG VYLINGQVKDEDC
DLLEGQKKSSRGNTQATSHSFDVRVLTQLLLNSDHRSTATVQICSGSVNLKGAVKCRAYIHSSKPKVKDAVQAVK
RDILNTVADRCEMLFEDLLLNEIPEKKDSEKEFHVLPYRVFVPLPGSTVMLCDYKFDDESAEEIRDHFMEMLDHT
IQIEDLEIAEETNTACMSSSMNSQASLDNTDDEQPKQPIKTTMLLKIQQNIGVIAAFTVAVLAAGISFHYFSD

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FIGURE 515A

CGAGACGGAAGCGGGCTGGGAGGCGTCGGCGGCGGCAGCGCACGTGGTGACGTGCGAGGGGGTGCGGCGCGAGCG
GTCGGCGGCGGCGGAGGCAGTGTCTCCCGGTCGCGCGTGGAGGTGGTTCGCTCAGAGCTGCTGGGCGCAGTTTCT
CCGCCTGCTGCTTCGGCGCGGCTGTATCGGCGAGCGAGCGAGTTCCCGCGAGTTCTCGGTGGCGCTCCCCCTTCC
TTTCAGTCTCCACGGAAGTGGCCCCCTCGTCTTCTACTTGACCGTCCCGTCTTCCGCCGCTTCTGGCGCTTTCC
GTTGGGCGGATTCCCGCCCGCTTCCTCCTGCTTCCCATCGAAGCTCTAGAAATGAATGTTTCCATCTCTTCAGAG
ATGAACCAGATTATGATGCATCATTATCACAGAAGAAATTCGTGTCTATAGCTTTTAAGGACTTGATTACATCAT
TTTCAAGCCTGATAGTTTTTGAATCACCATTAGAGCTTAAGACACACCTGCCTTCATTTCAACCACCTGTCTTCA
TACCCTGACGAAGTGCACCTTTTAACACTCCTTTGTCCTTGGATTACTTAAGAGTCCCAGAAATACATTTGCCA
CCAACAGAGTAGCCAAATTTATAAGGAAAAATGATTCCCAATGGATATTTGATGTTTGAGGATGAAATTTTATT
GAGTCTTCTGTTGCCAAATTAATGCCCTGAGGAAAAGTGGCCAGTTCGTGTATGTTGACTTCAGGTCTGTGGC
CATGAAATGTTAGCACACAGAGCAGTGCTAGCTTGCTGCAGTCCCTATTTATTTGAAATCTTTAATAGTGATAGT
GATCCTCATGGAATTTCTCACGTTAAATTTGATGATCTCAATCCAGAAGCTGTTGAAGTCTTGTGTAATTATGCC
TACACTGCTCAGTTGAAAGCAGATAAGGAATTGGTAAAAGATGTTTATTCTGCAGCAAAAAGCTGAAGATGGAT
CGAGTAAAGCAGGTTTGTGGTGATTATTTACTGTCTAGAATGGATGTTACCAGCTGCATCTCTTACCGAAATTTT
GCAAGTTGTATGGGAGACTCCCGTTTGTGTAATAAGGTTGATGCTTATATTCAGGAGCATTGTGTACAAATTTCT
GAAGAGGAGGAGTTTCTTAAGCTTCCAAGGCTAAAGTTGGAGGTAATGCTTGAAGATAATGTTTGCTTGCCAGC
AATGGCAAATTATATACAAAGGTAATCAACTGGGTGCAGCGTAGCATCTGGGAGAATGGAGACAGTCTGGAAGAG
CTGATGGAAGAGGTTCAAACCTTGTACTACTCAGCTGATCACAAGCTGCTTGATGGGAACCTACTAGATGGACAG
GCTGAGGTGTTTGGCAGTGATGATGACCACATTCAGTTTGTGCAGAAAAAGCCACCACGTGAGAATGGCCATAAG
CAGATAAGTAGCAGTTCAACTGGATGTCTCTCTTCTCAAATGCTACAGTACAAAGCCCTAAGCATGAGTGGAAA
ATCGTTGCTTCAGAAAAGACTTCAAATAACACTTACTTGTGCTGGCTGTGCTGGATGGTATATCTGTGTCTATT
TTTCTTCATGGGAGAAACAGCCACAGAGCTCACCAACAAGTACTCCAAAACCTAAGTAAGAGTTTAAGCTTTGAG
ATGCAACAAGATGAGCTAATCGAAAAGCCCATGTCTCCTATGCAGTACGCACGATCTGGTCTGGGAACAGCAGAG
ATGAATGGCAAACCTCATAGCTGCAGGTGGCTATAACAGAGAGGAATGTCTTCGAACAGTCGAATGCTATAATCCA
CATACAGATCACTGGTCTTTTCTTGCTCCCATGAGAACACCAAGAGCCCGATTTCAAATGGCTGTACTCATGGGC
CAGCTCTATGTGGTAGGTGGATCAAATGGCCACTCAGATGACCTGAGTTGTGGAGAGATGTATGATTCAAACATA
GATGACTGGATTCTGTTCAGAATTGAGAACTAACCGTTGTAATGCAGGAGTGTGTGCTCTGAATGGAAAGTTA
TACATCGTTGGTGGCTCTGATCCATATGGTCAAAAAGGACTGAAAAATGTGATGTATTTGATCCTGTAACAAAG
TTGTGGACAAGCTGTGCCCTCTTAACATTCGGAGACACCAGTCTGCAGTCTGTGAGCTTGGTGGTTATTTGTAC
ATAATCGGAGGTGCAGAACTTGAATTTGTCTGAACACAGTAGAACGATACAACTCTGAAAATAATACCTGGACT
TTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGCTGTCTTAATGGAAAACGTGTTGTATGTGGT
GGCTTTGATGGTTCTCATGCCATCAGTTGTGTGGAAATGTATGATCCAACCTAGAAATGAATGGAAGATGATGGGA
AATATGACTTCACCAAGGAGCAATGCTGGGATTGCAACTGTAGGGAACACCATTTATGCAGTGGGAGGATTTCGAT
GGCAATGAATTTCTGAATACGGTGGAAAGTCTATAACCTTGAGTCAAATGAATGGAGCCCTATACAAAGATTTTC
CAGTTTTTAAACAAATTTAAGACCCTCTCAAACCTAACAGGCTTAGTGATGTAATTATGGTTAGTAGAGGTACACTTG
TGAATAAAGAGGGTGGGTGGGTATAGATGTTGCTAACAGCAACACAAAGCTTTTGCATATTGCATACTATTAAAC
ATGCTGTACATACTTTTTGGGTTTTATTTGGAAGGAATGCAAAGATGAAGGTCTGTTTTGTGTACTTTTAAGACT
TTGGTTATTTTACTTTTTGGAAGAATAAACCAGAATGATTGGGCACATCATTTCAAGAAGTCCCTCTCCT
CCACATTTGTTTTGCCAATTTGCACATTAAATGACTCTTCCCTCAAATGTGTACTATGGGGTAAAGGGGTAGGG
TTTAAAGATGTAGACAGTTGGGTTTTTTAAGGGCCCTTTTTCAATAACTGGAACACTCTATAACAAAGGATACTT
ATTTAAATAGATGACATTGACTATTTTTGTTTTATTAAAGGAAGCTTACATGCCTACCAATATTTAATCTTTT
ATGATTGCCTTTTTATACTTTTTATATTCTCAGCAGAGTGCTTTACCAATTGAAGTAAAATGTGGCAGGCTGGA
GTTATTGAAGCAGAGTGGCAGTCTTCAGTTTGCAGAGTAGGGGTCTGTCTTTTAACTCTGAGTGCAAACCTTCAG
AGTCTTGCTTGCTGTCAGTTTTTTTCTTCAAGAATGCAGTACTAACATTTATTTGAGTGGAGTTACTGAACA
GTAACATAGCTGTGATTTTTGGTATTTGAAACACTGGTTTTAAATATTTGACTTGTTGAGGGTATGTTTTATAT
AGCAAGACATTATATAGCAGTAAAAAATGGTGTTTTATCTTCTATATAATTCTGTTTTTATTATTAACAAACA
GTCCTAAATAGCAGCCCTCAATTGTGAAAAAATTTACTTTAACTACATTAGGTTGTGAATGCAGGTTTTATCAG
AACTATGTTTTGTTTCAGTTTATCTGTTTCATATGGATAAATATTGGTTGGGATGACTTGGTGTCTAATGTGTAGT

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FIGURE 515B

GCTACACACCTAACTTATGGGGCCAAAATAGCATGTCCTAATGCTTGCTGCTGATTAAACACATTAAAGGTACT
TTGCAGGAAATCCTTGCACCATGGGATTAATATCCAATTGCTGCTTGTACACTCATTCACTACTAAAAGTTTTGA
GAAATTTTTTTTTCCAGTAATGAGCTTAAGAAATTTGTGGAAAATAACTCACCTGGCATCTTACATCTGAAATAA
GGAATGATATAAGGTTTTTTTTTCTCACAGAAGATGAAGCACACAGGAACCTAATGGGCCAACTGGGATGAGGTG
ACTATTCTGAGATGACTATTCAGTGGCTAACTTGGGTTAGGAAGAAAATAATTAGGTATTTTCTCCAAATGTTCA
CTGGTACTCTGCCACTTTATTTCTCTCATCTGTTACACAAAGAACCACCAGGAAAGCAAATCAGTTTGGTTGGTA
ACTCTGTAATTCCTAACTATCACTGGTTTGGTTCTGGACTAAAACCTACATTGACAGATTGAATTTGCCTAATATG
ATGACTGTTTTTAATATGGATCTGTATGTGTTCTATTTCAGCACAAAGGAAATAAAATTTTAGTTGAGGATTCAGC

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FIGURE 516

MIPNGYLMFEDENFIESSVAKLNALRKSGQFCDVRLQVCGHEMLAHRAVLACCSPYLFEIFNSDSDPHGISHVKF
DDLNPEAVEVLLNYAYTAQLKADKELVKDVYSAAKKLKMDRVKQVCGDYLLSRMDVTSCISYRNFASCMGDSRLL
NKVDAYIQEHLLQISEEEEFLLKLPRLKLEVMLEDNVCLPSNGKLYTKVINWVQRSIWENGDSLEELMEEVQTLYY
SADHKLLDGNLLDGQAEVFGSDDDHQFVQKKPPRENGHKQISSSTGCLSSPNATVQSPKHEWKIVASEKTSNN
TYLCLAVLDGIFCVIFLHGRNSPQSSPTSTPKLSKSLSFEMQQDELIEKPMSPMQYARSGLGTAEMNGKLIAGG
YNREECLRTVECYNPHTDHSFLAPMRTPRARFQMAVLMGQLYVVGGSNGHSDDLSCGEMYDSNIDDWIPVPELR
TNRCNAGVCALNGKLYIVGGSDPYGQKGLKNCDFDPVTKLWTSCAPLNIRRHQSAVCELGGYLYIIGGAESWNC
LNTVERYNPENNTWTLIAPMNVARRGAGVAVLNGKLFVCGGFDGSHAISCVEMYDPTRNEWKMMGNMTSPRSNAG
IATVGNTIYAVGGFDGNEFLNTVEVYNLESNEWSPTYTKIFQF

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FIGURE 517

CCTTTGCCGCTGGTCGGGATTGGGATGTCGAAGAACACAGTGTCTCGGCCCGCTTCCGGAAGGTGGACGTGGAT
GAATATGACGAGAACAAGTTCGTGGACGAAGAAGATGGGGGCGACGGCCAGGCCGGGCGGACGAGGGCGAGGTG
GACTCCTGCCTGCGGCAAGGAAACATGACAGCTGCCCTACAGGCAGCTCTGAAGAACCCCCCTATCAACACCAAG
AGTCAGGCAGTGAAGGACCGGGCAGGCAGCATTGTCTTGAAGGTGCTCATCTCTTTTAAAGCTAATGATATAGAA
AAGGCAGTTCAATCTCTGGACAAGAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCCG
TCTGACAATAGCAGTGCTATGTTACTGCAATGGCATGAAAAGGCACTTGCTGCTGGAGGAGTAGGGTCCATTGTT
CGTGTCTTGACTGCAAGAAAACTGTGTAGTCTGGCAGGAAGTGGATTATCTGCCTCGGGAGTGGGAATTGCTGG
TACAAAGACCAAAACAACCAATGCCACCGCTGCCCTGTGGGTAGCATCTGTTTCTCTCAGCTTTGCCTTCTTGC
TTTTTCATATCTGTAAAGAAAAAATTACATATCAGTTGTCTTTAATGAAAATTGGGATAATATAGAAGAAATT
GTGTTAAATAGAAAGTGTTCATCCTTTCAAAACCATTTTCAGTGATGTTTATACCAATCTGTATATAGTATAATT
TACATTCAGTTTAAATTGTGCAACTTTTAAACCCCTGTTGGCTGGTTTTTTGTTCTGTTTTGTTTTGTATTATTTT
TAACTAATACTGAGAGATTTGGTCAGAAATTTGAGGCCAGTTTCCTAGCTCATTGCTAGTCAGGAAATGATATTTA
TAAAAATATGAGAGACTGGCAGCTATTAAACATTGCAAACTGGACCATATTTCCCTTATTTAATAAGCAAAATA
TGTTTTTGGAATAAGTGGTGGGTGAATACCACTGCCAAGTTATAGCTTTGTTTTTGCTTGCCCTCCTGATTATCTG
TACTGTGGGTTTTAAGTAIGCTACTTTCTCTCAGCATCCAATAATCATGGCCCCTCAATTTATTTGTGGTCACCCA
GGGTTTCAGAGCAAGAAGTCTTGCTTTATACAAATGTATCCATAAAATATCAGAGCTTGTTGGGCATGAACATCAA
ACTTTTGTTCCACTAATATGGCTCTGTTTGGAATAAACTGCAAATCAGAAAGAATGATTTGCAGAAAAGAAAGAAA
AACTATGGTGTAATTTAAACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTT
AGACATTATGAGGTATACAACTAGTATTTAAGATACCATTTAATATGCCCCGTAAATGTCTTCAGTGTTCTTCAG
GGTAGTTGGGATCTCAAAAGATTTGGTTCAGATCCAAACAAATACACATTCTGTGTTTTAGCTCAGTGTTTTCTA
AAAAAAGAACTGCCACACAGCAAAAAATTGTTTACTTTGTTGGACAAACCAATCAGTTCTCAAAAAATGACCG
GTGCTTATAAAAAGTTATAAATATCGAGTAGCTCTAAACAAACCACCTGACCAAGAGGGAAGTGAGCTTGTGCT
TAGTATTTACATTGGATGCCAGTTTGTAACTACTGACTTATGTGCAAACTGGTGCAGAAATCTATAAACTCTT
TGCTGTTTTTGATACCTGCTTTTGTTCATTTTGTGTTTTGTGTTTTGTAAAAATGATAAACTTCAGAAAATAAAAT
GTCAGTGTTGAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 518

MSKNTVSSARFRKVDVDEYDENKFVDEEDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPINTKSQAVKDRA
GSIVLKVLISFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAMLLQWHEKALAAGGVGSIVRVLTARKT
V

FIGURE 519A

CCGAGGCAGAGTCCCTACTATATAGGCATGCAGCTCAGCTTGTCCCCTCCAATGAAGCATTGCTGTGAAGTTCCCTTT
CCCAGCTGCCTCCACTAATCTGCAAAAAGCAGCTTTCTAAAGCACTGGAAAGCCGAGATGAGGTGAAAACCAAGTG
GGGTGTTTTCTGACTTCATCAAGGCCCTTTATTAAATTCACGGTCATGTGTACCTGAGTAAGAGCTTGGAAAAGTT
GAGCCCTCTTCGAGAGAAATTGGAAGAAGCAGTTTAAAGAGGCTGCTATTCCAAAAGCTTTCAACTCTCAGCAGTT
AGTTCATGTCACTGTCTATTAACTGTTTCAACTTCATCACCTTCGTGACTTTAGCAATGAAACCGAGCAGCACAC
TTATAGCCAAGATGAGCAGCTATGTTGGACACAGTTGCTGGCCCTCTTTATGCTCTTTTCTTGGCATCCTGTGCAA
GTGTCCTCTACAGAATGAGTCTCAGGAGGAGTCTTACAATGCCATCCTCTTCCAGCAGTCAAGGTCTCCATGGA
CTGGCTAAGACTCAGACCCAGGGTCTTTTCAAGGAGCAGTGGTGGATGAAAGACAGTACATTTGGCCCTGGTTGAT
TTCTCTTCTGAATAGTTTCCATCCCCATGAAGAGGACCTCTCAAGTATTAGTGCAGACACCCTTCCAGAGGAGTT
TGAATTACAAGGATTTTTGGCATTGAGACCTTCTTTTCAAGAACTTGGATTTTTCCAAAGGTACCAGGGTATTAC
AGGGGACAAAAGAAGGCCAGCAACGACGAATACGACAGCAACGCTTGATCTCTATAGGCCAAATGGATTGCTGATAA
TCAGCCAAGGCTGATTAGTGTGAAAATGAGGTAGGGAAATTGTTGTTTATCACAGAAATCCCAGAATTAATACT
GGAAGACCCCAAGTGAAGCCAAAGAGAACCTCATTCTGCAAGAAACATCTGTGATAGAGTCGCTGGCTGCAGATGG
GAGCCCAGGGCTAAAACTAGTGTCTTACAAGCCGAAATTTAAGCAACAACCTGTGACACAGGAGAGAAGCCAGT
GGTTACCTTCAAAGAAAACATTAAGACACGAGAAGTGAACAGAGACCAAGGAAGAAGTTTTCTCCCAAAGAGGT
GAGAAGGGACTATAGCAAAGGAATAACTGTAACTAAGAATGATGGAAAGAAGGACAACAACAAGAGGAAAACCTGA
AACCAAGAAATGCACCTTAGAAAAGTTACAGGAAACAGGAAAGCAGAATGTGGCAGTGCAGGTAAAATCCCAGAC
AGAACTAAGAAAGACTCCAGTGTCTGAAGCCAGAAAAACACCTGTAACCTCAAACCCCAACTCAAGCAAGTAACTC
CCAGTTCATCCCCATTATCACCCCTGGAGCCTTCCCTCCTCTTCCCAGCAGGCCAGGGTTTTCCGCCCCCAACATA
TGTTATCCCCCGCCTGTGGCATTCTTCTATGGGCTCAGGTTACACCTTCCCAGCTGGTGTCTTCTGTCCCAGGAAC
CTTCTCTCAGCCTACAGCTCACTCTCCAGCAGGAAACCAGGTGCAAGCTGGGAAACAGTCCACATTCCTTACAG
CCAGCAACGGCCCTCTGGACCAGGGCCAATGAACCAGGGACCTCAACAATCACAGCCACCTTCCCAGCAACCCCT
TACATCTTTACAGCTCAGCCAACAGCACAGTCTACAAGCCAGCTGCAGGTTCAAGCTCTAACTCAGCAACAACA
ATCCCCCTACAAAAGCTGTGCCGGCTTTGGGGAAAAGCCCGCCTCACCCTCTGGATTCCAGCAGTATCAACAGGC
AGATGCCCTCCAAACAGCTGTGGAATCCCCCTCAGGTTCAAGGCCCATTAGGGAAAATTATGCCTGTGAAACAGCC
CTACTACCTTCAGACCCAAGACCCCATAAAACCTGTTTGAGCCGTCATTGCAACCTCCTGTAATGCAGCAGCAGCC
TCTAGAAAAAAAATGAAGCCTTTTCCCATGGAGCCATATAACCATAATCCCTCAGAAGTCAAGGTCCCAGAATT
CTACTGGGATTCTTCTTACAGCATGGCTGATAACAGATCTGTAATGGCACAGCAAGCAAACATAGACCGCAGGGG
CAAACGGTCACCAGGAATCTTCCGTCCAGAGCAGGATCCTGTACCCAGAATGCCGTTTGAGAAATCCTTATTGGA
GAAGCCCTCAGAGCTCATGTACATTATCCTCTTTTCTGTCCCTCACCGGATTCTCTCTCAATCAGGAAAGATA
CCCAAATAATAGTATGTTCAATGAGGTATATGGGAAAACCTGACATCCAGCTCCAAAGCAGAACTCAGTCCCTC
AATGGCCCCCAGGAAACATCTCTGTATTCCCTTTTTGAAGGGACTCCGTGGTCTCCATCACTTCTGCCAGTTT
AGATCATTCAACACCAGCCAGCCAGTCTCCTCATTCCTCTAACCCAAGCAGCCTACCCAGCTCTCCTCCAACACA
CAACCATAATTCTGTTCCATTCTCCAATTTTGGACCCATTGGGACTCCAGATAACAGGGATAGAAGGACTGCAGA
TCGGTGGAAAACCTGATAAGCCAGCCATGGGTGGGTTTGGCATTGATTATCTCTCAGCAACGTCATCCTCTGAGAG
CAGTTGGCATCAGGCCAGCACTCCGAGTGGCACCTGGACAGGCCATGGCCCTTCCATGGAGGATTCTCTGTCTGT
CCTCATGGAAAGCCTAAAGTCTATCTGGTCCAGTTCCATGATGCATCCTGGACCTTCTGCTCTGGAGCAGCTGTT
AATGCAGCAGAAGCAGAAACAGCAACGGGGACAAGGCACCATGAACCCTCCACACTGAGGCCAAAGTGGCAACCT
GGGAATGAAGGCTCCATAAACCATGGCATGTTGGGTTTGCAGGACTGGCCACACAGTCCCCCTGCAGGTGGCAGC
CCTCTTTTCTGTTTCTCGCTGTCAAGAGGGTGTAAGTATTCCACCAGCCCGCTGAGTGTGCACGAAATGTTTCGCA
GTGCAACAAAAAGAAAAATCCATCAGGAACCTCTCCGTCCCCCGGGGCCCTCCGGAGGGAGAGAGAGAGGAACTG
CTGTTTATCTCACTCAGTTACTTGGTATCACCGCCTCTCACCTTCTCCATCGTGCATGTCCCCAGCCACATGGGA
AGTGAAAGCTGAGAAGGGAAGGCAGATGGGAGAAGCCAATGGGAACCTTCTCAGTCTTTTTTCTCTTTGGGGAA
TAAATAGGAATCCATTAATGATTGCTTTGCTGACTGAGAATGTAGTTGAAATTAAACATCTTTTATTATTATTA
CTCTCAGTAGTAAATATCACACTGAATTCTTCCATACACAGGTGTGCTTCTAGTCAGTGTGTAGCAAGGAAAGC
CCCGTTCAGTGTCTCTGTGAGAGGTTGGTGGTGACAGGATGGGGAACCGACCTCTTCAGCCAGTGGAAATGTTCC
ATAAGGGAGAGTTCAAGGCCTGTGAGAAGGCTCTGGTAGGCCCTTCTCTGGCCAGGAGACTCCAGCAGGGAAATGC
CCTTCACTCTGTAGGTGCTCGAGCCCAATCGAGGATACAGTGTGGGTGGTGGTGTCTGGGCTGGACTAGCAGGTA

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FIGURE 519B

GA CTGCTGTAGGATTTCAAATTACGTTTTTTGATTCCTGTACATTTTACAGTCGCACAGCAAGCAGTCTCACAGAA
GGCAGGCTAGTCCATTTCACAGCCTGACACGTTCTAATAGGTAGAAGCTTTTCAGTGTGGTTATTTTTTCTTTGGTT
GGTTTTTGTGCCCCCATTCTACTTCCCACCCTCCTGCCCCATCTCCATCCCTTCTTTTACCCAATGCTGTATGCT
AGTAATTGTTTTTATTCTAATGTGTGCAACATCACATCTCCCCAAGAAGCAACAGCATGGGGTCCAGCAGTTGG
GGCCCAAAGACAGTCTGAAGAGGAAGGAAGCAGCAGTATCTGCGTAGCCACAGAGGGCCAGGCCCTGCCCA
GCTGCAGTCTCCCAGCCTCCACTTTTCAGAGTGAAATTCAAGGCAGCACGGACATGTGCCCATCAGGCACAGAAGA
AAACACGACGTCGTCCATTTTGGAAGAGACGAAAGAAAGGAAAATAAACTCTTTGTATGATATTTATTAGGAGGA
AAGAGGACTGAAAATGTTCTTGTGTAGAAACAGAAGGACAGCATTTCTGTTAGTCATTTCCCTGGAAGTAATAT
TTTAAGGGGAAATTATGGAAACAATCTAATTGTTCAATTGCTGTGCTAGTGGTAGGGTTTATTTTCTGGGAGGTC
TCTCCTTTGTGTGTCTGTATGTTTGTGTACACACACGTGCCCATCTGCTGTCCCAGAGGGGAGGGGTTGTGTGTG
CGAGTGTATGGAGTTAGTGTGGAACCTTAAGAGCTGGAAGACAGCTGTAGAGCAAAGCACATCCAGGAGCCCCAGT
TGTCAGTGCAGTCTGGGCAACCCAGCAATGAAAAGGGGTGAGATAACGCTCATTGCTCTTCAGAGAGAGTGTT
GGAGCCCCCCCCCGCCCCGTATGCTTACATTATTGCTCTTTTAGTTTGACATGGTGTGTTGGGTTTTGTTTTTTGA
AAGGTCTGAAAAGGTGAAGCCCCCTACCCAATGGCAATATGAAACCTTTTGTGCTTCTCTTCAGCCCCCTTCCCTG
TGTCCACCTTTCTCTCCTCTTCCCAAGCCTTTTTTCTACTACCTTTACCCAGTTTGTGTGTTTGAGCTCTGCATT
CAGGCAGCTGCAACATTCCAGTGTGTTGAACTGTCACTGATTCTTGCGCCCTAGACAAGCTAACCAGGTTTACCAT
CTCACTCCCAGTAATACCCAGCTCCTATCTAAAGCCCCATTCTGCATGAGAATTTGGTGTGTTGGAATGTTTTCTG
ACTCTTGGGGCGGGATTCTCGCCTTATCATCTCACTGTGGAGTAATGAGGGGGAGGAGAATCTTTATCAGAAA
CTGGTTTTGTGTAGTAACTTTCTTTTGTGGTTTTTTGTTTTGTTTTCTGGGTTTTGTTTTTGTCTGTCTGT
GCAAGACCTGCAGCTGCTGAAAATCAGCTTTGCCTTTAATTAAACCATGTTCTCTCC

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FIGURE 520

MSFLGILCKCPLQNESQEESYNAYPLPAVKVSMDWLRLRPRVQEAVVDERQYIWPWLISLLNSFHPHEEDLSSI
SATPLPEEFELQGFLALRPSFRNLDFSKGHQGITGDKEGQORRIRQORLISIGKWIADNQPRLIQCENEVGKLLF
ITEIPELILEDPSEAKENLILQETSVIESLAADGSPGLKSVLSTSRNLSNNCDTGEKPVVTFKENIKTREVNDRDQ
GRSFPPKEVRRDYSKGITVTKNDGKKDNNKRKTETKKCTLEKLQETGKQNVAVQVKSQTELKTPVSEARKTPVT
QTPTQASNSQFIPIHHPGAFPPLESRPGFPPPTYVIPPVAFSMGSGYTFFAGVSVPGTFLQPTAHSPAGNQVQA
GKQSHIPYSQORPSGPGPMNQGPQQSQPPSQQPLTSLPAQPTAQSTSQLQVQALTQQQQSPTKAVPALGKSPPHH
SGFQQYQQADASKQLWNPPQVQGPLGKIMPVKQPYYLQTQDPIKLFEPQLQPPVMQQQPLEKKMKPFPMEPYNHN
PSEVKVPEFYWDSSYSMADNRSVMAQQANIDRRGKRSPGIFRPEQDPVPRMPFEKSILLEKPSSELMSSSSFLSLT
GFSLNQERYPNNSMFNEVYGKNLTSSSKAELSPSMAQETSLYSLFEGTPWSPSLPASSDHSTPASQSPHSSNPS
SLPSSPPTHNNHNSVPFSNFGPIGTPDNRDRRTADRWKTDKPAMGGFGIDYLSATSSSESSWHQASTPSGTWTGHH
PSMEDSSAVLMESLKSISWSSSMHHPGPSALEQLLMQQKQKQQRGQGTMNPPH

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FIGURE 521A

ACCACCTGATCAAGGAAAAGGAAGGCACAGCGGAGCGCAGAGTGAGAACCAACCGAGGCGCCGGGCAGCGAC
CCCTGCAGCGGAGACAGAGACTGAGCGGCCCGGCCCGCCATGCCTGCGCTCTGGCTGGGCTGCTGCCTCTGCTT
CTCGCTCCTCCTGCCCCGAGCCCGGGCCACCTCCAGGAGGGAAGTCTGTGATTGCAATGGGAAGTCCAGGCAGTG
TATCTTTGATCGGGAACCTTCACAGACAACTGGTAATGGATTCCGCTGCCTCAACTGCAATGACAACACTGATGG
CATTCACTGCGAGAAGTGCAAGAATGGCTTTTACCGGCACAGAGAAAAGGACCGCTGTTTGCCCTGCAATTGTAA
CTCCAAAGGTTCTCTTAGTGCTCGATGTGACAACTCCGGACGGTGACAGCTGTAAACCAGGTGTGACAGGAGCCAG
ATGCGACCGATGTCTGCCAGGCTTCCACATGCTCACGGATGCGGGGTGCACCCAAGACCAGAGACTGCTAGACTC
CAAGTGTGACTGTGACCCAGCTGGCATCGCAGGGCCCTGTGACGCGGGCCGCTGTGTCTGCAAGCCAGCTGTAC
TGGAGAACGCTGTGATAGGTGTGATCAGGTTACTATAATCTGGATGGGGGGAACCCCTGAGGGCTGTACCCAGTG
TTTCTGCTATGGGCATTAGCCAGCTGCCGCAGCTCTGCAGAATACAGTGTCCATAAGATCACCTCTACCTTTCA
TCAAGATGTTGATGGCTGGAAGGCTGTCCAACGAAATGGGTCTCCTGCAAAGCTCCAATGGTTCACAGCGCCATCA
AGATGTGTTTAGCTCAGCCCAACGACTAGACCCTGTCTATTTTGTGGCTCCTGCCAAATTTCTTGGAATCAACA
GGTGAGCTATGGTCAAAGCCTGTCTTTGACTACCGTGTGGACAGAGGAGGCAGACACCCATCTGCCCATGATGT
GATTCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTGATGCCACTTGGCAAGACACTGCCTTGTGGGCTCAC
CAAGACTTACACATTACAGGTTAAATGAGCATCCAAGCAATAATTGGAGCCCCAGCTGAGTTACTTTGAGTATCG
AAGGTTACTGCGGAATCTCACAGCCCTCCGCATCCGAGCTACATATGGAGAATACAGTACTGGGTACATTGACAA
TGTGACCCTGATTTACAGCCCGCCCTGTCTCTGGAGCCCCAGCACCCCTGGGTGAACAGTGTATATGTCCTGTTGG
GTACAAGGGGCAATTCTGCCAGGATTGTGCTTCTGGCTACAAGAGAGATTGAGCGAGACTGGGGCCTTTTGGCAC
CTGTATTCTTGTAACTGTCAAGGGGGAGGGGCTGTGATCCAGACACAGGAGATTGTTATTACAGGGGATGAGAA
TCCTGACATTGAGTGTGCTGACTGCCCAATTGGTTTCTACAACGATCCGCACGACCCCCGAGCTGCAAGCCATG
TCCCTGTACATAACGGGTTACAGCTGCTCAGTGATGCCGGAGACGGAGGAGGTGGTGTGCAATAACTGCCCTCCCGG
GGTCACCGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTACTTTGGGGACCCCTTTGGTGAACATGGCCAGTGAG
GCCTTGTGAGCCCTGTCAATGCAACAACAATGTGGACCCAGTGCCCTCTGGGAATTGTGACCGGCTGACAGGCAG
GTGTTTGAAGTGTATCCACAACACAGCCGGCATCTACTGCGACCAAGTGCAAAGCAGGCTACTTCGGGGACCCATT
GGCTCCCAACCCAGCAGACAAGTGTGAGCTTGCAACTGTAAACCCATGGGCTCAGAGCCTGTAGGATGTGGAAG
TGATGGCACCTGTGTTTGAAGCCAGGATTTGGTGGCCCCAAGTGTGAGCATGGAGCATTACAGCTGTCCAGCTTG
CTATAATCAAGTGAAGATTACAGATGGATCAGTTTATGCAGCAGCTTCAGAGAATGGAGGCCCTGATTTCAAAGGC
TCAGGGTGGTGTGAGTAGTACCTGATACAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTTCAGGA
CATTCTGAGAGATGCCAGATTTTCAAGGCTGATGAGATCCCTTGGTCTCCAGTTGGCCAAGGTGAGGAGCCA
AGAGAACAGCTACCAGAGCCGCTGGATGACCTCAAGATGACTGTGGAAAGAGTTCTGGGCTCTGGGAAGTCAGTA
CCAGAACCAGGTTCTGGGATACTCACAGGCTCATCACTCAGATGCAGCTGAGCCTGGCAGAAAGTGAAGCTTCCTT
GGGAAACACTAACATTCTGCCTCAGACCACTACGTGGGGCCAAATGGCTTTAAAAGTCTGGCTCAGGAGGCCAC
AAGATTAGCAGAAAGCCACGTTGAGTCAGCCAGTAACATGGAGCAACTGACAAGGGAACTGAGGACTATTCCAA
ACAAGCCCTCTCACTGGTGCAGCAAGGCCCTGCATGAAGGAGTCGGAAGCGGAAGCGGTAGCCCGACGGTGCTGT
GGTGCAAGGGCTTGTGGAATAATTGGAGAAAACCAAGTCCCTGGCCAGCAGTTGACAAGGGAGGCCACTCAAGC
GGAAATTGAAGCAGATAGGTCTTATCAGCACAGTCTCCGCCCTCTGGATTCAAGTGTCTCGGCTTCAGGGAGTCAG
TGATCAGTCCTTTTCAAGGTGAAGAAGCAAAGAGGATCAAACAAAAGCGGATTCACTCTCAAGCCTGGTAACCAG
GCATATGGATGAGTTCAAGCGTACACAGAAGAATCTGGGAAACTGGAAAGAAGAAGCACAGCAGCTCTTACAGAA
TGGAAAAAGTGGGAGAGAGAAATCAGATCAGCTGCTTTCCCGTGCCAATCTTGCTAAAAGCAGAGCACAGAAGC
ACTGAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAGCATCCTTAAAAACCTCAGAGAGTTTGACCTGCAGGT
GGACAACAGAAAAGCAGAAGCTGAAGAAGCCATGAAGAGACTCTCTACATCAGCCAGAAGGTTTTCAGATGCCAG
TGACAAGACCCAGCAAGCAGAAAGAGCCCTGGGGAGCGCTGCTGTGATGCACAGAGGGCAAAGAATGGGGCCGG
GGAGGCCCTGGAAATCTCCAGTGAGATTGAACAGGAGATTGGGAGTCTGAAGTGGAAAGCCAATGTGACAGCAGA
TGGAGCCTTGGCCATGGAAAAGGGACTGGCCTCTCTGAAGAGTGAGATGAGGGAAGTGAAGGAGAGCTGGAAAG
GAAGGAGCTGGAGTTTGACACGAATATGGATGCAGTACAGATGGTGATTACAGAAGCCAGAAGGTTGATACAG
AGCCAAGAACGCTGGGGTTACAATCCAAGACACACTCAACACATTAGACGGCCTCCTGCATCTGATGGACCAGCC
TCTCAGTGTAGATGAAGAGGGGCTGGTCTTACTGGAGCAGAAAGCTTTCCCGAGCCAAGACCCAGATCAACAGCCA
ACTGCGGCCCATGATGTGAGAGCTGGAAGAGAGGGCACGTCAGCAGAGGGGCCACCTCCATTTGCTGGAGACAAG

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FIGURE 521B

CATAGATGGGATTCTGGCTGATGTGAAGAACTTGGAGAACATTAGGGACAACCTGCCCCCAGGCTGCTACAATAC
CCAGGCTCTTGAGCAACAGTGAAGCTGCCATAAATATTTCTCAACTGAGGTTCTTGGGATACAGATCTCAGGGCT
CGGGAGCCATGTCATGTGAGTGGGTGGGATGGGGACATTTGAACATGTTTAATGGGTATGCTCAGGTCAACTGAC
CTGACCCCAATTCCTGATCCCATGGCCAGGTGGTTGTCTTATTGCACCATACTCCTTGCTTCCTGATGCTGGGCAA
TGAGGCAGATAGCACTGGGTGTGAGAATGATCAAGGATCTGGACCCCAAAGAATAGACTGGATGGAAAGACAAAC
TGCACAGGCAGATGTTTGCCTCATAATAGTCGTAAGTGGAGTCTTGGAAATTTGGACAAGTGCTGTTGGGATATAG
TCAACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGACTTTGCCCAGGCATGAAATTCTTCCTAATGT
CAGAACAGAGTGCAACCCAGTCACACTGTGGCCAGTAAAATACTATTGCCTCATATTGTCCTCTGCAAGCTTCTT
GCTGATCAGAGTTCCTCCTACTTACAACCCAGGGTGTGAACATGTTCTCCATTTTCAAGCTGGAAGAAGTGAGCA
GTGTTGGAGTGAGGACCTGTAAGGCAGGCCCATTCAGAGCTATGGTGCTTGCTGGTGCCTGCCACCTTCAAGTTC
TGGACCTGGGCATGACATCCTTTCTTTTAATGATGCCATGGCAACTTAGAGATTGCATTTTTATTAAAGCATTTT
CTACCAGCAAAGCAAATGTTGGGAAAGTATTTACTTTTTTCGGTTTCAAAGTGATAGAAAAGTGTTGGCTTGGGCAT
TGAAAGAGGTAAAATTCTCTAGATTTATTAGTCCTAATTCATCCTACTTTTCGAACACCAAAAAATGATGCGCAT
CAATGTATTTTATCTTATTTTCTCAATCTCCTCTCTCTTTTCTCCACCCATAATAAGAGAATGTTCTTACTCACA
CTTCAGCTGGGTCACATCCATCCCTCCATTATCCTTCCATCCATCTTTCCATCCATTACCTCCATCCATCCTTC
CAACATATATTTATTGAGTACCTACTGTGTGCCAGGGGCTGGTGGGACAGTGGTGACATAGTCTCTGCCCTCATA
GAGTTGATTGTCTAGTGAGGAAGACAAGCATTTTTTAAAAAATAAATTTAAACTTACAAACTTTGTTTGTCAAG
TGGTGTATTTATTGCAATAACCGCTTGGTTTGCAACCTCTTTGCTCAACAGAACATATGTTGCAAGACCTCCCATG
GGGGCACTTGAGTTTTGGCAAGGCTGACAGAGCTCTGGGTTGTGCACATTTCTTTGCATTCCAGCTGTCACTCTG
TGCTTTTCTACAACTGATTGCAACAGACTGTTGAGTTATGATAACACCAGTGGGAATTGCTGGAGGAACCAGAGG
CACTTCCACCTTGGCTGGGAAGACTATGGTGCTGCCTTGCTTCTGTATTTCTTGGATTTTCTTGAAAGTGT
TAAATAAAGAACAATTGTTAGA

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FIGURE 522

CCCAACCGCAGTTGACTAGTACACCTGCTACCGCGCCTTTGCTTCTCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCA
CCATCCTGCCTACTACGTGCTGCCCTGCGCCCGCAGCCATGTGCCGCACCCTGGCCGCCTTCCCCACCACCTGCC
TGGAGAGAGCCAAAGAGTTCAAGACACGTCCTGGGGATCTTTCTTACAAAATCAGAGCTGGGCTGCGATACTGGGA
GTACTGGCAAGTTCGAGTGGGGCAGTAAACACAGCAAAAGAGAATAGAAAATTCTCAGAAAGATGTGCTGGGGTGGGA
GAGAGTCGTTTCGACCTGCTGCTGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTTCTGAAAGACAGAGTTCA
GTGAGGAGAACTGGAGTTCTGGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCA
GGGCACACCAGATCTTTGAGGAGTTCAATTTGCAGTGAGGCCCTTAAAGAGGTCAACATTGACCATGAGACCCACG
AGCTGACGAGGATGAACCTGCAGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGGAAGACACGTACCCTGA
TGGAGAAGGACTCCTACCCACGCTTCTTGAAGTCGCCTGCTTACCGGGACCTGGCTGCCCAAGCCTCAGCCGCCT
CTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCACACACCTGAGTCTCCACGGCAGTGAGGAAGCCAGCCG
GGAAGAGAGGTTGAGTCACCCATCCCCGAGGTGGCTGCCCCCTGTGTGGGAGGCAGGTTCTGCAAAAGCAAGTGCAA
GAGGACAAAAAAGAGTGGAGAGGAGCCGCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTG
GATACTGTGGGACTCATGCTGGAGAGGAGCCGCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTG
GTGGGGCTCTCTGTGGGGCAAAAAGGTGGTATGGGGGTTAGCACTGGCTCTCGTTTCTCACC GGAGAAGGAAGTGT
TCTAGTGTGGTTTAGGAAACATGTGGATAAAAGGGAACCATGAAAATGAGAGGAGGAAAGACATCCAGATCAGCTG
TTTTGCCTGTTGCTCAGTTGACTCTGATTGCATCCTGTTTTTCTTAATTCCAGACTGTTCTGGGCACGGAAAGGGA
CCCTGGATGTGGAGTCTTCCCCCTTGGCCCTCCTCACTGGCCTCTGGGCTAGCCAGAGTCCCTTAGCTTGTACC
TCGTAACACTCCTGTGTGCTGTGCCAGCCTTGCACTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCCAT
GCGAGATATTTATACCTCAAACACTGGCCTGTGAGCCCTTTCCAAGTCAGTGAGAGCCCTGAAAGGAGGCTCAC
TTGAATCCAGCTCAGTGCTCTGGGTGGCCCCCTGCAGGTGGCCCCCTGACCCTGCGTTGCAGCAGGGTCCACCTGT
GAGCAGGCCCCGCCCTGGGGCTCTTCTCGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTTGAGGCAGGGCCC
AGGAGAACAAAGTGTGGAGGCCCTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGCAGTGTGGAACAAGGCAGAA
AAGGATCCTAGGAAATAAGTCTCTTGGCGGTCCCTGAGAGTCTGCTGAAATCCAGCCAGTGTTTTTTTGTGGTAT
GAGAACAGGCAAAAAGAGATGCCCCGAGATAGAAGGGGAGCCTTGTTTCTTTCTTCTGCGAGCTGAGATGAACA
CTGGAGTGGGCAGAGGTGGCCAGGACCATGGCACCCTTAGAGTGCAGAAGCTGGGGGGAGAGGCTGCTTCGAAG
GGCAGGACTGGGGATAATCAGAACCCTGCCCTGCACCTCAGGGGCATCACTGAACAAAACATTTCTGATGGCAACT
CTGCGGCAGAGCCCAGGCTGGGGAAGTGAACCTACCCAGGGCAGCCCCCTTTGTGGCCAGGATAATCAACACTGTT
CTCTCTGTACCATGAGCTCCCTCCAGGAGATTATTTAAGTGTATTGTATCATTGGTTTTCTGTGATTGTCATAACA
TTGTTTTTGTATTATTGTTGGTGCTGTTGTTATTTATTATTGTAATTTTCAGTTTGCCTCTACTGGAGAACTCAGCA
GGGGTTTCAGCCTGACTGTCTCCCTTTCTCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGGAGCCTG
TCAGGAACCTCTCACTGTTTTAAATATTTATTTATTGTGACAAATGGAGCTGTTTTCTAGATATGAATGATGTTT
GCAATCCCCATTTTCTGTTTTCAGCATGTTATATTCTTATAAAAAAAAAGCAAAAGTCAAAATATG

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FIGURE 523

GGGTGCGGGGCTGCTGGCGGCTCTGCAGAGTCGAGAGTGGGAGAAGAGCGGAGCGTGTGAGCAGTACTGCGGCCCT
CCTCTCCTCTCCTAACCTCGCTCTCGCGGCCCTAGCTTTACCCGCCCGCCTGCTCGGCGACCAGCGGGGATCCTCC
CCCAGCCGCAAGTCCACGAAGAAAGCAACGAATGAAAATTATGAAGACAACGAGAAGTCAGACTCCTCCGGGTGCG
CGCTCCAGCTGCTTCGGCTTCGTCGCCTACTCTGTGAACCTCCGGGGAGAGATCTCGAGTCAAGATTAAGACCTTA
ACCCACCAACCTGCCTGTTTCGGACACCCCCGGGCCGGCCGCTGTCTGTCCCTTCTCCATCGCCCTCTCCCAGA
AAGCTCCGGTGCTTGGACCAGCTAGAGTCTGAGAAAGAGGAGAGGCGGAACGCCACTCCAAAAAGAGAAGGGTT
AAAGAGGGCAACCCTAACGATACGCTTGACTTTCTGTGGCTGGGAACACCTTCCACCATGACCACCTCAGCAAGT
TCCCACCTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATC
TGGATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCCTGGACAGTGAGCCCAAGTGTGTGGAAGAG
TTGCCTGAGTGGAATTTTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCT
GCTGCCATGTTTTCGGGACCCCTTCCGTAAGGACCCTAACAAAGCTGGTGTTATGTGAAGTTTTCAAGTACAATCGA
AGGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTT
GGCATGGAGCAGGAGTATACCCCTCATGGGGACAGATGGGCACCCCTTTGGTTGGCCTTCCAACGGCTTCCCAGGG
CCCCAGGGTCCATATTACTGTGGTGTGGGAGCAGACAGAGCCTATGGCAGGGACATCGTGAGGCCCATACCAGG
GCCTGCTTGTATGCTGGAGTCAAGATTGCGGGGACTAATGCCGAGGTCTATGCCTGCCAGTGGGAATTTAGATT
GGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCGTTTCATCTTGCATCGTGTGTGTGAAGAC
TTTGAGTGTATAGCAACCTTTGATCCTAAGCCCATTCCTGGGAAGTGAATGGTGAGGCTGCCATACCAACTTC
AGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCAC
CAGTACCACATCCGTGCCTATGATCCCAAGGGAGGCCTGGACAATGCCCGACGTCTAACTGGATTCCATGAAACC
TCCAACATCAACGACTTTTCTGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGGACTGTTGGCCAG
GAGAAGAAGGGTTACTTTGAAGATCGTCGCCCCCTCTGCCAACTGCGACCCCTTTTCGGTGACAGAAGCCCTCATC
CGCACGTGTCTTCTCAATGAAACCGCGCATGAGCCCTTCCAGTACAAAAATTAAGTGGACTAGACCTCCAGCTGT
TGAGCCCTCCTAGTTCTTCATCCCACTCCAACCTCTTCCCCCTCTCCAGTTGTCCCGATTGTAAGTCAAAGGGT
GGAATATCAAGGTGCTTTTTTTTTCATTCCATGTGCCAGTTAATCTTGCTTTCTTTGTTTGGCTGGGATAGAGGGG
TCAAGTTATTAATTTCTTACACCTACCCTCCTTTTTTTTCCCTATCACTGAAGCTTTTTTAGTGCAATTAGTGGGGA
GGAGGGTGGGAGACATAACCACTGCTTCCATTTAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAG
AGCAGTTTTGCAGAAGGGGGTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAG
GACTTGCCCTCGTGGTGGAACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAAGTGGGAATTAGGAGAG
AAGGTAGGGGTGGGAATCAGAGAGAATGGCTTTGGTCTCTTGCTTGTGGGACTAGCCTGGCTTGGGACTAAATG
CCCTGCTCTGAACACGAAGCTTAGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAAGGTTCTTACTGCT
TGTCCTTGATTTATCACACAAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAAACTATATGTATGG
TTTTGTGGATTATGTGTGTTTTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGT
CGGATTAGAAATAAAGCATCTCATTTTGAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGG
CCCTCAAGACCCTTTTGGGTTTCTGCCCTGCCACCCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAAC
ACGTTACTAGCAGTCACTTGATCTCCGTGGCTTTGGTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAG
AGTTGGCTGGTCAACTTGAGCATGTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCA
CTAAAGCAGGCCTTTTGATATTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAAATCAAATTTGTAG
GGTTTCTAGGTAATTTTTACAGAATTGCTTGTGTTGCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGG
ACAGGGCTGGAGTCAAAACACTTGTAATTTTGTATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTT
TCTTTTATAATAAGGAATAAAACCCACCTTTATTCCTTCATTTTCTATCTACCATTTTCTGGTTCTTGTGTTGGCTG
TGGCAGGCCAGCTGTGGTTTTCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAA
CTCCTCATTGTAAACAACTGTGTAAGTGCCCAAAGCAGCACTTATAAATCAGCCTAACAT

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FIGURE 524A

GCGGGGAGGGGCGGGGCTATGGAGAGGAGGAGGAAGATGGCGGGCGGGCTGCTCTGAAGAGACCTCGGCGGGCGG
GGAGGAGGAGAGAAGCGCAGCGCCGCGCCGCGCCGGGGCCCATGTGGGAGGAGTCGGAGTCGCTGTTGCCGCCG
CCGCCTGTAGCTGCTGGACCCGAGTGGGAGTGAGGGGGAAACGGCAGGATGAAGTTCGCCGAGCACCTCTCCGCG
CACATCACTCCCGAGTGGAGGAAGCAATACATCCAGTATGAGGCTTTCAAGGATATGCTGTATTCAGCTCAGGAC
CAGGCACCTTCTGTGGAAGTTACAGATGAGGACACAGTAAAGAGGTATTTTGCCAAGTTTGAAGAGAAGTTTTTC
CAAACCTGTGAAAAAGAACTTGCCAAAATCAACACATTTTATTAGAGAAGCTCGCAGAGGCTCAGCGCAGGTTT
GCTACACTTCAGAATGAGCTTCAGTCATCACTGGATGCACAGAAAGAAAGCACTGGTGTTACTACGCTGCGACAA
CGCAGAAAGCCAGTCTTCCACTTGTCCTCATGAGGAACGTGTCCAACATAGAAATATTAAAGACCTTAAACTGGCC
TTCAGTGAGTTCTACCTCAGTCTAATCCTGCTGCAGAACTATCAGAATCTGAATTTTACAGGGTTTCGAAAAATC
CTGAAAAAGCATGACAAGATCCTGGAAACATCTCGTGGAGCAGATTGGCGAGTGGCTCACGTAGAGGTGGCCCCA
TTTTATACATGCAAGAAAATCAACCAGCTTATCTCTGAACTGAGGCTGTAGTGACCAATGAAC TTGAAGATGGT
GACAGACAAAAGGCTATGAAGCGTTTACGTGTCCCCCTTTGGGAGCTGCTCAGCCTGCACCAGCATGGACTACT
TTTAGAGTTGGCCTATTTTGTGGAATATTCAATTGTACTGAATATTACCTTGTGCTTGCCGCTGTATTTAAACTT
GAAACAGATAGAAGTATATGGCCCTTGATAAGAATCTATCGGGGTGGCTTTCTTCTGATTGAATTCTTTTCTA
CTGGGCATCAACACGTATGGTTGGAGACAGGCTGGAGTAAACCATGTACTCATCTTTGAACCTAATCCGAGAAGC
AATTTGTCTCATCAACATCTCTTTGAGATTGCTGGATTCTCGGGATATTGTGGTGCTGAGCCTTCTGGCATGC
TTCTTTGCTCCAATTAGTGTATCCCCACATATGTGTATCCACTTGCCCTTTATGGATTATGGTTTTCTTCTCT
ATCAACCCACCAAAAACCTTTCTACTATAAATCCCGTTTTGGCTGCTTAAACTGCTGTTTCGAGTATTTACAGCC
CCCTTCCATAAGGTAGGCTTTGCTGATTTCTGGCTGGCGGATCAGCTGAACAGCCTGTCAGTGATACTGATGGAC
CTGGAATATATGATCTGCTTCTACAGTTTGGAGCTCAAATGGGATGAAAGTAAGGGCCTGTGCCAAATAATTCA
GAAGAATCAGGAATTTGCCACAAATATACATATGGTGTGCGGGCCATTGTTCAGTGCATTCCTGCTTGGCTTCGC
TTCATCCAGTGCTGCGCCGATATCGAGACACAAAAGGGCCTTTCTCATTAGTTAATGCTGGCAAATACTCC
ACAACCTTTCTTCATGGTGACGTTTGCAGCCCTTTACAGCACTCACAAAGAACGAGGTCACTCGGACACTATGGTG
TTCTTTTACCTGTGGATTGTCTTTTATATCATCAGTTCTGTCTATACCTCATCTGGGATCTCAAGATGGACTGG
GGTCTCTTCGATAAGAATGCTGGAGAGAACACTTTCTCCGGGAAGAGATTGTATACCCCCAAAAGCCTACTAC
TACTGTGCCATAATAGAGGATGTGATTCTGCGCTTTGCTTGGACTATCCAAATCTCGATTACCTCTACAACCTTG
TTGCCTCATTCTGGGGACATCATTGCTACTGTCTTTGCCCACTTGAGGTTTTCCGGCGATTGTGTGGAACTTC
TTCCGCCTGGAGAATGAACATCTGAATAACTGTGGTGAATTCGCTGCTGTGCGGGACATCTCTGTGGCCCCCTG
AACGCAGATGATCAGACTCTCCTAGAACAGATGATGGACCAGGATGATGGGGTACGAAACCGCCAGAAGAATCGG
TCATGGAAGTACAACCAGAGCATATCCCTGCGCCGGCCTCGCCTCGCTTCTCAATCCAAGGCTCGTGACACTAAG
GTATTGATAGAAGACACAGATGATGAAGCTAACACTTGAATTTTCTGAAGTCTAGCTTAACATCTTTGGTTTTCC
TACTCTACAATCCTTTCTCGACCAACGCAACCTCTAGTACCTTTCCAGCCGAAAACAGGAGAAAACACATAACA
CATTTTCCGAGCTCTTCCGGATCGGATCCTATGGACTCCAAACAAGCTCACTGTGTTTCTTTTCTTTCTTCTGG
TTTAATTTTAATTTTCTATTTTCAAACAATATTTACTTCAATTTGCCAATCAGAGGATGTTTTAAGAAACAAAA
CATAGTATCTTATGGATTGTTTACAATCACAAGGACATAGATACCTATCAGGATGAAGAACAGGCATTGCAAGGA
CCCTCTGATGGGACGGTACTGAGATATCTCGGCTTCCGCTCAGCCCGTTTTGACTGGTTGAAACCGGACATTGG
TTTTTAAATTTTTTGTGAGTTTATGTGGAGAATTTTTTTCTTTCTTTCATACCCAGCGCAAAGGCCTGGCCGCA
CTTGCAAGAAAAGTGCAACTTAAAGCAGTACCTTCAATTCATGAAGCTACTTTTTAATTTGATGTAACCTTTCTTA
TTTTGGGAAGGGTGTGCTGGGTGGGTGGGAAATATGATGTATTTGTTACACATAGTTTTCTCATTATTTATGAAC
TTAACCATACAGAATGATATAACTCCTGTGCAATGAAGGTGATAACAGTAAAGAAGGCAGGGGAAACTTACGTT
GGATGACATTTATGAGGGTCAGTCCACATACCTCTTTTCAAGGAGACAACCTGCACCAGTTTGACCTTTTCTTTTC
TTTGTTTTTTATTTTAAAGCCAAAGTTTCAATTGCTAATCTTAAAGTTGCTGCTGCTTTAGAGTCTGAGCATATCT
CTCATAACAAGGAATCCACACTTCACACCACCGGCTGAATTTTCAATGGAAGAGGTTCTGATAATTTTTTAACTT
TTTAAGGAACAGATGTGGAATACACTGGCCCATATTTCAACCTTAAACAGCTGAAGCTATGCCTTATTATGCATCC
ACATGTATGGTCCCTGTAGCGTGACCTTTACTAGCTCTGAATCAGAAGACAGAGCTATTTTCAAGGCTCTGTGTG
CCCTCACTAGATAGTTTTTCTTCTGGGTTCAACCACTTTAGCCAGAAATTTGATCAAAATTAAGTCTGTGATGGG
GAAACTATATTTTTGAGCACATGGAACAAATTATACTTCTCATTCATATTATGTTGATACAAAAGACCTTGGA
GCCATTTCTCCAGCAGTTTTTAAAGGATGAACATTGGATTTCATGCCATCCCATAGAAAACCTGTTTTAAATTT

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FIGURE 524B

TAGGGATCTTTACTTGGTCATACATGAAAAGTACACTGCTTAGAAATTATAGACTATTATGATCTGTCCACAGTG
CCCATTGTCACTTCTTTGTCTCATTTCCTCCCTTTGTTCCCTTAGTCATCCAAATAAGCCTGAAAACCATAAGAGA
TATTACTTTATTGAATATGGTTGGCATTAAATTTAGCATTTCATTATCTAACAAAATTAATATAAATTCCAGGAC
ATGGTAAAATGTGTTTTAATAACCCCCAGACCCAAATGAAAATTTCAAAGTCAATACCAGCAGATTCATGAAAGT
AAATTTAGTCCTATAATTTTCAGCTTAATTATAAACAAAGGAACAAATAAGTGAAGGGCAGCTATTACCATTCTG
CTTAGTCAAAACATTCGGTTACTGCCCTTTAATACACTCCTATCATCAGCACTTCCACCATGTATTACAAGTCTT
GACCCATCCCTGTCGTA ACTCCAGTAAAAGTTACTGTTACTAGAAAATTTTTATCAATTAAGTACAAATAGTTT
CTTTTTAAAGTAGTTTCTTCCATCTTTATTCTGACTAGCTTCCAAAATGTGTTCCCTTTTTGAATCGAGGTTTTT
TTGTTTTGTTTTGTTTTCTGAAAAATCATACAACTTTGTGCTTCTATTGCTTTTTTGTGTTTTGTTAAGCATGT
CCCTTGCCCCAAATGGAAGAGGAAATGTTAATTAATGCTTTTTAGTTTAAATAAATTGAATCATTATATAATAAT
CAGTGTTAACAATTTAGTGACCCTTGGTAGGTTAAAGGTTGCATTATTTATACTTGAGATTTTTTCCCCTAACT
ATTCTGTTTTTTGTACTTTAAAACTATGGGGGAAATATCACTGGTCTGTCAAGAAACAGCAGTAATTATTACTGA
GTTAAATTGAAAAGTCCAGTGGACCAGGCATTTCTTATATAAAATAAAATTGGTGGTACTAATGTG

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FIGURE 525

AATAAATTATTTTTGTTAAGGCAAGCATTGGTGTGTTCTTTAACTTGCTACTTGGAGACCTAGTGTCCAGTCTGG
ACAGAAATGCACAGAGACCAGCCTCACCTGGAATGCAGCCAGACTCGATGTCCCTCAGCACACACAGCTCCTGGCC
ACAGACTGCCCATAGAACTGTCTGCACCCAAACCCCATGGCCTTTTCATGCACGGAGACAGGCCTCTGGATGTGC
AGCCTTGCCACCCCCTGCCCCAATCCTCCCTGAGAGCTCCTGCCTCAGTGCCCTGGGCTGGTGAGGGAGAAGCCT
GTCTGCACCTGCCTAATTCCAGCTCCTCCAGGAAGCAAGGGCTTGTGTTGTCAGAGCTGCAGGGTTGGCCACTCGG
TGGGGAGGAGTCAGCCAGGATTAGAGAGCCTGCCCTAATCCGGCCTGCTGGGTTTTACAAGGATCAGAGCTGCT
GATAATGAACCTCATTAAAGGGGAGCAGGAGCCTCAATCCGATTGGTTTTCTCTTTGACATCTTCACTCTGCTC
AGATGGCCTGGGTGCTATGTGGAGCAGGTGGGATGCCAAGGCCACTCCTGCTATGGGGCAGCTGGGGCTGGGGAG
GGATGGCAGTCTCCCTGCATGTTTCCCTCGACCTCTTTAGCTGCAGCGCCTTGCTGGGCTCCTGGGTGGACTCC
CTCTCTGTGCCCCCTGCTCCAGGCACCCATTGGCTCCATCCTCCTGGTTGTGCTCTGCACCCCCTGCTCCCTTGGG
CTGGCCCTGGCTGGGGGCTGAGAGACAGACAGGAACCCACAATCAGGAGGCAACCCTGGCCTGCAAGAGGAAGA
CAGAGGCTCCCAGGGCCGGTGCCTGTGTGCCCACTGCACCAAGGCCGCTGAATAAGCCTGCCCTTCACCCCCTA
AGGGCTCCTTGCCCAATGCCAAGTGTGGGGATTCTGTGTCAGCAAGCCCTGTGGCTCCAGTGACGGTATTTCTAA
AGCCAACTTAGTTACCTAGAAATTAGCGCCATGTTGGAACACTGTGCGCAGCAGCCCCGGGCTGCACAGTGTGTAG
CCCAGCCTCCAGGTCCACGGAGTGGTGTGGACCTCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGC
CCGGCCCCAGCCCCTCTGGTTGATAAACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTACCTTGATTTCGCC
AGGGCTCTCGGCAACATCGATAAACAGCCTCGCCACCAGCTGGGCCCTCCCCACCCAGTCTGCCAGGCTGGG
AGCTGGAGCTTGCTGAGTCTTGAATGCCCTTCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCA
AGGGGAGCCCTGCAAAGCAAAGGCTCCTTGTCTGGGGCGGGATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCT
ACTGGGGGCACAGGAACAATTTCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAGTAGGTGTTAGCAAGG
AAATAAGGAGGAACGGGGTTACGGGCAGAGGAGAAAGCACATGCCAAGTCAGCAAAGAAAAGTAGAATTCGAAA
ACTTTTTTAAAAATATTACTAAGGATTTTCACAATGCTGCACTGGGCTAGAACTGAAGCTAAAACAGATACGTGG
TCCCTGCTGCTATGGGGCTTCCGTTCTAGAGGCAAGGACAGGTTGTGATGAGGGTTCTGAAGGATAGAGACCAAG
CAGGGAGGGTGTGAGGAGGCTTCTGCGAGACCTGAAGGATGGGAAGCCAGGAAGTGGGAGGGGTGGGGGTCCAG
GCTGGAGGGGCCCAATGTAGGTGTAGAGGGACTACAGCCCTGAGGGGCTGCTCCATGCGGCATTCTTGAGGTCC
AAGAGGGGCAGCGCCACCTTGGGCCAGGCTCCTCTCCAGCAGCCTTGGTATGGGGTGGGGGTGGGAAGACCCCTG
ATGCAGCCTGTCTCTGGGTGTGGGGGTGGAGGAGAGGGCTCCAGGGGACCCAGCCAGCCTTGACCTGGAGGAA
AGTCAGGTGGGCTCAGAGAGAGCCCTCAAATCTGGGCCCTGGGTGAGGTGGGGTCAAGTCCAGCCTGAAGAGA
ATGGACTCTGGAATCTGACGCTGGGTTTGAATCCAGCTTCCAACACTCACTGGCTGTGTGACTTTGGGCAAGAT
AATTATCCCCTTGTCCCCATGTGTCAATTGGAGATAAACTACCCACCTACCAGATTGTTGTACCATGCTGGGCAA
ACACTAAGTGCTTAATAATGGTAGCCCACTGCTC

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FIGURE 526

MHRDQPHLECSQTRCP SAHTAPGHR LPIEL SAPKPHGLFMHGDRPLDVQPCHPLPQSSLRAPASVPWAGEGEACL
HLPNSSSSRKQGLVCQSCRVGHSVGRSQPGLES LPLIRPAGFYKDQSC

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FIGURE 527

AGCCGGATGGTCCCGCAGCTCGGGGCCGGCCATGCTTCGCGGTCCGTGGCGCCAGCTTTGGCTCTTTCTCCTGCT
GCTGCTCCCGGGCGCGCCTGAGCCCCGCGCGCCTCCAGGCCGTGGGAGGGAACCGACGAGCCGGGCTCGGCCTG
GGCCTGGCCGGGCTTCCAGCGCCTGCAGGAGCAGCTCAGGGCGGCGGGTGCCCTCTCCAAGCGGTACTGGACGCT
CTTCAGCTGCCAGGTGTGGCCCCGACGACTGTGACGAGGACGAGGAGGCAGCCACGGGGCCCCCTGGGCTGGCGCCT
TCCTCTGTTGGGCCAGCGGTACCTGGACCTCCTGACCACGTGGTACTGCAGCTTCAAAGACTGCTGCCCTAGAGG
GGATTGCAGAATCTCCAACAACCTTTACAGGCTTAGAGTGGGACCTGAATGTGCGGCTGCATGGCCAGCATTGTT
CCAGCAGCTGGTCCTAAGAACAGTGAGGGGCTACTTAGAGACGCCCCAGCCAGAAAAGGCCCTTGCTCTGTCGTT
CCACGGCTGGTCTGGCACAGGCAAGAACTTCGTGGCACGGATGCTGGTGGAGAACCTGTATCGGGACGGGCTGAT
GAGTGACTGTGTGTCAGGATGTTTCATCGCCACGTTCCACTTTCCTCACCCCAAATATGTGGACCTGTACAAGGAGCA
GCTGATGAGCCAGATCCGGGAGACGCAGCAGCTCTGCCACCAGACCCTGTTTCATCTTCGATGAAGCGGAGAAGCT
GCACCCAGGGCTGCTGGAGGTCCCTTGGGCCACACTTAGAACGCCGGGCCCCCTGAGGGCCACAGGGCTGAGTCTCC
ATGGACTATCTTTCTGTTTCTCAGTAATCTCAGGGGCGATATAATCAATGAGGTGGTCCCTAAAGTTGCTCAAGGC
TGGATGGTCCCGGGAAGAAATTACGATGGAACACCTGGAGCCCCACCTCCAGGCGGAGATTGTGGAGACCATAGA
CAATGGCTTTGGCCACAGCCGTCTTGTGAAGGAAAACCTGATTGACTACTTCATCCCCCTTCCTGCCTTTGGAGTA
CCGTCACGTGAGGCTGTGTGCACGGGATGCCTTCCTGAGCCAGGAGCTCCTGTATAAAGAAGAGACACTGGATGA
AATAGCCCAGATGATGGTGTATGTCCCCAAGGAGGAACAACCTCTTTTCTTCCCAGGGCTGCAAGTCTATTTCCCA
GAGGATTAACTACTTCCCTGTCATGAAGGCTAGAGGAAGACTTCCTGGAAGTGCCTTTCTTCCACTAACAGGACCC
TGGGACCTGTAGGAGCACCCCGTTTGGGACTGTGAGGTGTTTGAAGGTGTGGACTGGCATCCAGCAGCCACTAAC
AAACACACAACCTGGTGTGTAAAAGGCAGGCCTTACATTAGAAGCCAAGCCAATCCTTTTTCTTTTTTTTGGAGGT
CCCACCGAGATAGATAGGAACCTTGGATTGCTGAATTCAAAAACAGAGCCCATTCCTTAAGATCACTTGGTGCCTTA
AAGACACGCATTCCAAAGTGGAATGTGGTTGAAGAAAGTGGGCCAGGTGGTTGAAGAAAGCCATGTGGGAGCTCA
GCAAATCCCAAGGGCTTATTATGACACTCCAGATGGTCTCCTTAGCATCTCAGCTCTTCTGCAAGGAAGAGCTTG
GGTGTTAGGCCTCAGAGGCTGTAGGGTCCTTGGGTTACAGAGCCGGGGAGAACGAAGTTCTGTGACCCAGGGGTG
GAGAATACACTCTAGGTTTGCGGGCTGGTGGGCTTTCAAATTGGTACTTCCAGAGGAAAGCCAAGCTGCTTCTGT
TGTGAGCGAATCAGCCAAGAGCCTGAGGCTGAAGGGAAAAGTACACAGAGGAAGATATTTTACAAACCAGGTCAG
TGTAGGCCAAGACTTATGGTCTACAGATTTTGGCGGGGAGGGGGGACCTTTTCAAAGACAATAGGGGGTCTTGA
CATGTTTGTGTATGTAAAGATGATAAGATTAAATTTTTGATTTTCTAAAAAAAAAAAAAAAAAAAA

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FIGURE 528

MLRGPWRQLWLFLLLLLPGAPEPRGASRPWEGTDEPGSAWAWPGFQRLQEQQLRAAGALSKRYWTLFSCQVWPDDC
DEDEEAATGPLGWRLPLLQRYLDLLTTWYCSFKDCCPRGDCRISNNFTGLEWDLNVRLHGQHLVQQVLRTVRG
YLETPQPEKALALSFHGWSGTGKNFVARMLVENLYRDGLMSDCVRMF IATFHFPHPKYVDLYKEQLMSQIRETQQ
LCHQTLFIFDEAEKLHPGLLEVLGPHLERRAPEGHRAESPWTIFLFLSNLRGDIINEVVLKLLKAGWSREEITME
HLEPHLQAEIVETIDNGFGHSRLVKENLIDYFIPFLPLEYRHVRLCARD AFLSQELLYKEETLDEIAQMMVYVPK
EEQLFSSQGCKSISQRINYFLS

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FIGURE 529

ATTTCTCCATGTGGCAGACAGAGCAAAGCCACAACGCTTTCTCTGCTGGATTAAAGACGGCCACAGACCAGAAC
TTCCACTATACTACTTAAAATTACATAGGTGGCTTGTCAAATTC AATTGATTAGTATTGTAAAAGGAAAAAGAAG
TTCCTTCTTACAGCTTGGATTCAACGGTCCAAAACAAAAATGCAGCTGCCATTAAAGTCACAGATGAACAACTT
CTACACTGATTTTTTAAAATCAAGAATAAGGGCAGCAAGTTTCTGGATTCACTGAATCAACAGACACAAAAAGCTG
GCAATATAGCAACTATGAAGAGAAAAAGTACTAATAAAAATTAACCCAACGCATAGAAGACTTTTTTTCTCTTCT
AAAAACAATAAGTAAAGACTTAAATTTAAACACATCATTTTACAACCTCATTTCAAATGAAGACTTTTACCTG
GACCCTAGGTGTGCTATTCTTCTACTAGTGGACACTGGACATTGCAGAGGTGGACAATTCAAATTA AAAAAT
AAACCAGAGAAGATAACCTCGTGCCACAGATGGTAAAGAGGAAGCAAAGAAATGTGCATACACATTCCTGGTACC
TGAACAAAGAATAACAGGGCCAATCTGTGTCAACACCAAGGGGCAAGATGCAAGTACCATTAAAGACATGATCAC
CAGGATGGACCTTGAAAACCTGAAGGATGTGCTCTCCAGGCAGAAGCGGGAGATAGATGTTCTGCAACTGGTGGT
GGATGTAGATGGAAACATTGTGAATGAGGTAAAGCTGTGAGAAAGGAAAGCCGTAACATGAACTCTCGTGTTAC
TCAACTCTATATGCAATTATTACATGAGATTATCCGTAAAGAGGGATAATCACTTGAACCTTTCCCAACTGGAAAA
CAAATCCTCAATGTCACCACAGAAATGTTGAAGATGGCAACAAGATACAGGGAAGTAAAGGATATTTTCCCG
CTTGACTGATCTTGTCAATAACCAATCTGTGATGATCACTTTGTTGGAAGAACAGTGCTTGAGGATATTTTCCCG
ACAAGACACCCATGTGTCTCCCCACTTGTCCAGGTGGTGCCACAACATATTCTAACAGCCAACAGTATACTCC
TGGTCTGCTGGGAGGTAACGAGATTCAAGAGGATCCAGGTTATCCAGAGATTTAATGCCACCACCTGATCTGGC
AACTTCTCCACCAAAGCCCTTTCAAGATACCACCGGTAACCTTCATCAATGAAGGACCATTCAAAGACTGTCA
GCAAGCAAAGAAGCTGGGCATTGGTCAGTGGGATTTATATGATTAAACCTGAAAACAGCAATGGACCAATGCA
GTTATGGTGTGAAAACAGTTTGGACCTGGGGGTTGGACTGTTATTCAGAAAAGAACAGACGGCTCTGTCAACTT
CTTCAGAAATTGGGAAAATTATAAGAAAGGGTTTGGAAACATTGACGGAGAATACTGGCTTGGACTGGAAAAATAT
CTATATGCTTAGCAATCAAGATAATTACAAGTTATTGATTGAATTAGAAGACTGGAGTGATAAAAAAGTCTATGC
AGAATACAGCAGCTTTCGTCTGGAACCTGAAAGTGAATTCTATAGACTGCGCCTGGGAACCTTACCAGGGAAATGC
AGGGGATTCTATGATGTGGCATAATGGTAAACAATTCACCACACTGGACAGAGATAAAGATATGTATGCAGGAAA
CTGCGCCCACTTTCATAAAGGAGGCTGGTGGTACAATGCCTGTGCACATTCTAACCTAAATGGAGTATGGTACAG
AGGAGGCCATTACAGAAGCAAGCACCAAGATGGAATTTTCTGGGCCGAATACAGAGGCGGGTCATACTCCTTAAG
AGCAGTTCAGATGATGATCAAGCCTATTGACTGAAGAGAGACACTCGCCAATTTAAATGACACAGAACCTTTGTAC
TTTTCAGCTCTTAAAAATGTAAATGTTACATGTATATTACTTGGCACAAATTTATTTCTACACATAAAGTTTTTAA
AATGAATTTTACCGTAACTATAAAAGGGAACCTATAAATGT

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FIGURE 530

MKTFTWTLGVLFLLVDTGHCRRGGQFKIKKINQRRYPRTDGKEEAKKCAYTFLVPEQRITGPICVNTKGQDAST
IKDMITRMDLENLKDVLRSQKREIDVLQLVVDVDGNIVNEVKLLRKESRNMNSRVTQLYMQLLHEIIRKRDNSLE
LSQLENKILNVTTEMLKMATRYRELEVKYASLTDLVNNQSVMITLLEEQLRIFSRQDTHVSPPLVQVVPQHIPP
SQQYTPGLLGGNEIQRDPGYPRDLMPPDLATSPTKSPFKIPPVTFINEGPFKDCQQAKEAGHSVSGIYMIKPEN
SNGPMQLWCENSLDPGGWTVIQKRTDGSVNFFRNWENYKKGFGNIDGEYWLGLENIYMLSNQDNYKLLIELEDWS
DKKVYAEYSSFRLEPESEFYRLRLGTYYQGNAGDSMMWHNGKQFTTLDRDKDMYAGNCAHFHKGGWWYNACAHSNL
NGVWYRGGHYRSKHQDGIFWAEYRGGSYSLRAVQMMIKPID

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FIGURE 531

ATGGGGCTGCTCACTGGCACTGGAGGCCGAAAGAAGGTGAGGGCAAGTGAGATGCAGGGACCTCTTCTCACAGCT
GTGCTGACAAGCACAAAAAGGAGCCCCCACGTCCACACCAGGAAAGGGGGGATGGTGCACAAGATCCAGAGGCG
TCAACAGACACGTCCAGCGAACAAGCACAGGGTGGGCCGTCCGGGAGCCTTGTGCCGCCAGGAGGAAAGCCGCAC
CGAGGGCAGCAGGGAGGCTCTGATGGCTGCCAAGAGGGTCTGATCCAGAAATATGGCCTCAATATGTGCCCCAG
TGTTCGTCAGTACGCGAAGGATATCGGTTTCATTAAATTGGACTAA

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FIGURE 532

TAGGTTTCATTTGGAAGCTTGAGTTTTATCATTGGCAACAAATGCCATCAGTTTTTTTCCAAGCTGACTTGTTCTT
TTTTGAGCAAATCTCTGCCAAAATTACCCCTAAAATATGAATAATCAATTTGTCAGGTTTTTTTCAAACATAAAAT
GTTCTGTGAAAACAAGCAGCTAGTTTCACTTGTATCTCAAAACAATTGTAACACTTTTTTCTAGGGAAAAAAAAT
CTAGACATCCATACTTTATGGCAGATGTGCTTCATGCATACTTCCCATTTTGTACACAGAATATCAAAATAACG
TGTAATCAAGGTCAAGATTTACTAACAATAAAATTCAAAACAGAAATGCTGAATAAGGTGATC
CAATTTTAAATATTTTATTTGAGACAACATCTCACCCCTGTCACCCAGGCTGGAATCCAGTGGTGTGACACAGCTC
ACTGCATCCTCAACCTCCTGGGCTCAAGCGATCGTCCCACCTCAGTCTCATGAGTGGTGGGACTACAGGCATGC
ACCATCATGCCCGGCTCACTTTTTTTTTCTTTTTTTTTTAAATTGTAGACACAGGGTCTCACTATGTTGCCAGG
CCGGTCTTGAACCTCCTGGACTCAAGCAATCCCCCACCTTGGTTTCCCAAAGTGTTGGGATTACAGGCATGAGCT
ACTACATACAACCTGAAATCTTTTAAATATGCTTGTCAAAAAGTTTTCTGATTTCAGCAAATGGCACTTATATATAAA
AGAGAGAACAAGAAGCTGGATGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTAGGTGGGCAGATCA
CGAGGTCAAGAGTTTCGAGACCAGCCTGGCCAACGTGGTGAAACCCCTCTCTACTAAAAATACAAAATAGCCAG
GCATGGTGGCCACGCTGTAATCCAGCTACTTGAAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGG
AGGTTGCAGTGAGCCAAGATTGCGCCGCTACATTCCAGCCTGGGCAACACGAGCGAACTCCGTCTCAAAAAAAA
AAAAAAAAGAATAGAACTTGGCTGGATGCAGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGGCAGGGCAG
TTGGATCACTTGAGGCCAGGAGTTCAAGACTAGCCTGGCTGACATGGTGAAACTCCATCTCTACTAAAAATACAG
AAAAAAAATTAGCTGGGAGTGGTGGCACACACCTGTATCCAGCTACTCAGGTAGTTGAGGCACAACAATCAC
TTGAGCCTAGGAGGCCAGGCTGGAGTGAGGTGGCACGATCTTGGTTCACTGCAACCTCCACCTCCAGGGTTTCAG
AGTAGCTGGGACTACAGGCCACACTACCACACCCGGCTAATTTTCGCTTTTTTTTTCAGTAGAGACCGGGTTTTGC
CATGTTGGCCAGGCTGGTCTCGAAGCCTGAGCCATAACCTGGCGAAAAGATACTTTGAAATGTAACATCGTTTTT
CACTTCAAAATCAAGGTATTTTACCAACTTGTCTTTGGTACCTCCCCAAAAACTGATCTACTACATTTGCAGTTT
CATTCATTTTTCCAACATTAAGGAATAAACTTGAAGCGCTTACATTCTTGTGGGGGAAGTAAGAACAACACAT
AATAGGTCAATGGTGGTCACATGAAAAGTAAAGGGTAACCGATTGGGGTAGGTGGTGGTAGTTTTGTGTGTGTGTT
TTTTTTTGAGACCAAGTCTCGCCGTTGCCAGGCTGGAGTGCGGTGGCATGATCTCAGTTCACTGCAACCTCCAC
TTCCTAGGTTCAAGCAATTCTCCTGCCTCAGCTACTCAAGAGGCTGAGGCAGGAGAATTCCTTGAACCTGGGAGG
CAGAGGTTGCAGTGAACCTGATAGTGCCGCTGCACTCCATTCTGGGCAAGAGCTAGACTCTTGTCTAAAAAAA
AAAAAATACTTGAACCTGCTATACCTTTGCTTCTTTAAACCTTGCTCCACACAGTGTAGTCAAGCCGACTCTCCA
TACCTGTAGAAATTTAATCTCCTTTACCAATAGGTAGTAATAGGTGGATTCTAAAAGATTTCCTCACTACTGTT
TCAGTTTAAAGATTAATCTCCATTTTCTTTCTCAGAGAGATTCCCATCTGCTTTAATTTTAAATCATCACTAACA
GTAGCTCAATCAATTAACGTTAACATCAATAAAACATGTACCTTTAAAAGGTATGACAGGAACTGTCTTCATGTC
CTTACCCAAGCAAGTCATCCATGGATAAAAACGTTACCAGGAGCTGGAATACAAATGAGGACTTCCATTAAATG
CTAAACATCATTAACCTCTTTTCAAAGTTGTCTGTC

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FIGURE 533

MCFMHTSHFVTQNIKITCTQGQDLLTKIPKLLNNRMLNKVIQFLIFYLRQHLLTSPRLESSGVTQLTASSTSWA
QAIVPPQSHEWLGLQACTIMPGSLFFSFFF

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FIGURE 534

ATCTGTAGATGGGAGTGATTAGCTGTTTAAAAGTTAAATGTGACTGAGAAGGAAATTGAGTAGGGCAAATTTTA
AATGGGTATTATTTTTCATCTTCAAACAGGCAGACCTGTTATCCTAAACTAGGTGAGTCAGCTTTTGGTACATGT
GATGATTTTTCAGTGTAACCAATGATGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTCC
ATTTTGATTCTGAGGTTACTCTACTAACAAGCATCACACATTTGTATTTTGCCCTGATTAATATGTTGGCTTCGC
TTTCAGGGTTTTTAATGACCACAACAAGCAAGCATGCAGCTTACTGCTTGAAAGGGTCTTGCCTCACCCAAGCTA
GAGTGCAGTGGCCTTTGAAGCTTACTACAGCCTCAAACCTTCTGGGCTCAAGTGATCCTCAGCCTCCCAGTGGTCT
TTGTAGACTGCCTGATGGAGTCTCATGGCACAAGAAGATTAAAACAGTGTCTCCAATTTTAATAAATTTTGCAT
TCC

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FIGURE 535

AGTTAAACAGCTGAGCTTCTGAATGCCTGCAAGAAGCTGCCCTTTGAAATTAAGAACTTCGTGAAGAAAACAGA
GGCTCTTCGGTTGCAGTATCGCTACTTAGACTTGCCTAGTTTCCAAATGCAGTATAACCTGCGACTGAGGTCCCA
GATGGTCATGAAAATGCGGGAATATCTCTGTAATCTGCATGGGTTTGTGGATATAGAAACCCCCACATTGTTTAA
GAGGACCCAGGGGGTGCCAAAGAGTTTTTGTAGTACCATCCAGGGAACCTGGAAAGTTTTGTTCTCTCCCTCAGAG
TCCTCAACAGTTTAAAGCAACTTCTGATGGTTGGCGGTTTAGACAGATATTTTCAGGTTGCCCGATGTTATCGAGA
TGAAGGTTCAAGACCAGACAGACAGCCTGAGTTTACTCAGATTGACATAGAGATGTCATTTGTAGACCAGACTGG
GATCCAGAGTTTAAATTGAGGGTTTGCTCCAGTATTCTGCGCCCAATGACAAAGATCCTGTGGTTGTTCTTTCC
TACTATGACTTTTGTGAGGTGCTGGCCACCTATGGAACCTGATAAACCTGACACTCGCTTTGGAATGAAGATTAT
AGATATCAGTGATGTGTTTAGAAACACAGAGATTGGATTCTTCAAGATGCACTTAGTAAGCCCCATGGAACCTGT
GAAAGCCATATGTATCCCTGAAGGAGCAAAATACTTAAAAAGGAAAGACATTGAATCCATTAGAACTTTGCAGC
TGACCATTTTAAATCAGGAAATCTTACCTGTATTCTTAAACGCCAATAGAACTGGAATTCTCCAGTTGCTAATTT
CATAATGGAGTCACAAAGACTGGAATTAATCAGACTAATGGAGACCCAGAGGAAGATGTGGTCTCTACTAACTGC
TGGAGAGCACAATAAAGCATGCTCTTTGTTAGGAAAATTACGACTGGAATGTGCTGACCTTCTAGAAACAAGAGG
AGTGGTGCTCCGTGACCCCACTCTGTTCTCTTTCTTTGGGTGGTAGATTTCCCACTCTTCTGCCCCAAGGAGGA
AAGTCCAGAGAGCTGGAATCGGCCCCACCCCACTTACTGCTCCCCACCCCACTGACATACATCTCTGTACAC
TGAGCCCCAAAAGGCCCGTAGCCAACACTATGACTTGGTTTTAAATGGCAATGAAATAGGAGGTGGTTCAATTCCG
AATTCACAATGCAGAGCTGCAGCGTTATATCCTGGCAACCTTACTAAAGGAGGATGTGAAAATGCTCTCCCATCT
GCTCCAGGCTTTAGATTATGGGGCACCCCTCATGGAGGAATTGCCTTAGGGTTAGACAGACTGATATGCCTTGT
CACTGGATCTCCAAGCATCAGAGATGTCATAGCCTTCCCAAAGTCCTTCCGGGGACATGACCTCATGAGCAATAC
CCCAGATTCTGTCCCTCCTGAGGAAGTGAAGCCCTATCATATCCGAGTCTCCAAGCCAACAGACTCCAAGCAGA
AAGAGCTCATTTGAATCATGCATACCATGCAGAAAGTTGAGCTTTTAGGTTTTGTCTCTTTGCTTCCCCAAGGCT
AAAGTCAGATCTAGAGTTCTGCCACAGGTCTAACAATCAAGTCTTTAGATGGAAGGAATCCAGGCAACATTCTTC
ACCACAACGAAGAAACAGATAAAAGATAACCAATTTTGACTTGATTTCATGCATCATTTGGATTTTTTTTTGGTTA
GGACTTTTTTTGAAGTTCCTTTTTTACTTAGGTGTGAAAGATGGTTCTTTGTTGAAATAATATAGTGGTTTAGTGT
TTTCAAATCATGTTTCTCATACCCAGATAGTAGATTATTCATTTAGGACAGAGGTAATCAAATTATGTGTGAAAT
GTAGGAAAATGCTTGGCCCTGTAACTAGTGAGTTGATGGAGCATTTGCTTCATCATCCTCATCAAGAGAATCAT
ATAAATTAAGCTTTATAATGACATTTCAACCATCAACATAATATAGTGAGGAGTAGCATAATTTTTTTAATAAT
GCAGAAAACATCACTGAAATGAGAGTCACAAATTTTTCTTCAGTGTTTCAGCCTGAGTAAGTTACATAAACCTCG
CTTAGCCTCCCTTCTGTCTAATGTGTAAAATACATACTTGCCCTGGCTACCTCACCGGGCTGTTATTGCTGGAAT
CAGAGGAGATAACATATATGGAAGATAAAGTGAATAAAAGTACTTTGAAAACT

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FIGURE 536

MQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKFLVPSREPGKFCSLPQSPQQFKQLLMVGGLDR
YFQVARCVRDEGSRPDROPEFTQIDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTK
PDTRFGMKIIDISDVFRNTEIGFLQDALSKPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEILPVFLNAN
RNWNSPVANFIMESQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECADLLETGRGVVLRDPTLFSFLWV
DFPLFLPKESPRELESAAHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLL
KEDVKMLSHLLQALDYGAPPHGGIALGLDRLICLVGTGSPSIRDVIAFPKSFGRHDLMSNTPDSVPPEELKPYHIR
VSKPTDSKAERAH

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FIGURE 537

GCCTGTCTGCATTCTACTATATAAAGCAGCAGAGACGTTGACTAGCGCATATTTGCTAAGAGCACCATGCGCGCA
GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCAAAGGAATTGAAAGGA
ACCACTCATTCACTTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATA
CTGAGATCTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAA
GTAATGCAATGGTCTCAATCTCTGGAAAACTTCTTGCCAACCAAACCTGGTCAAAATGTCTTTGGAAGTTTCCTA
AAGTCTGAATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTT
TTGCCCTGTAAAGCAGAAGAGATATATAAAGCATTTGTGCATTTCAGATGCTGCTAAACAAATCAATATTGACTTC
CGCACTCGAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAGTCATA
TATACTCTTATGGAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTG
CAGGCTAATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGCGCAGAAGGAATGTG
CCAGTATGGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGTCTTGACAGGCCAAGAAGAACAAATGACTCAG
AATGGATTAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGA
AGGAGGAAGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCTCAGAACTGGGAAGG
CCAGGTAACCTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGACTGTAAGAATCAAAG
TCAACTGACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACTTAAAGTATAT
GTTTTCAAATTGCCATTGCTACTATTGCTTGTGCGGTGTTATTTTATTTTATTGTTTTGACTTTGGAAGAGATGA
ACTGTGTATTTAACTTAAGCTATTGCTCTTAAAACCAGGGAGTCAGAAATATATTGTAAAGTTAAATCATTGGTGC
TAATAATAAATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAA
CTTGCAATTTATTCCTCAGATTTTAAAAATAAATAAATAATTCATTT

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FIGURE 538

CTTTTCGATCCGCCATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTATGGGGAAGACCA
TCACCCCTCGAGGTTGAACTCTCGGATACAATAGATAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTC
CTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGTTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAA
AGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTC
CCAGGAAGAATAAGCACAAGAGAAAAGGTTAAGCTGGCTCTCCTGAAATATTATAAGGTGGATGAGAATGGCT
TTATGGCAAGCCACTTTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACA
AGTAACTGTATGACTTAATAA

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FIGURE 539

MQIFVKTLMGKTITLEVELSDTIDNVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG
GAKKRKKKSYTTPRKNKHKRKKVKLALLKYYKVDENGFMASHFDRHYCGKCCLTYCFNKPEDK

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FIGURE 540

AAAACAGCCGGGGCTCCAGCGGGAGAACGATAATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGAC
CCATGGACAAGAGCGCAGGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTTAAAAG
ATTGGAAGACCCGTTTGGAGCTACTTCTTACAAAATTCCTCTACTCCTGGGAAGCCCCAAAACCGGCAGAAAAAGCA
AACAGCAAGCTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTGTGGTCAGAAGCATTGACGAGCTGCTAGCCA
GCAAATATGGTCTTGCTGCATTGAGGGCTTTTTTAAAGTCGGAATTCTGTGAAGAAAATATTGAATTCGGCTGG
CCTGTGAAGACTTCAAAAAAACCAATCACCCCAAAAGCTGTCCTCAAAAGCAAGGAAAATATATACTGACTTCA
TAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACCAAACTCTGATTGCCCAGAATATACAAGAAG
CTACAAGTGGCTGCTTTACAACGCCCCAGAAAAGGGTATACAGCTTGATGGAGAACAACCTTTATCCTCGTTTCT
TGGAGTCAGAATTCTACCAGGACTTGTGTAAAAAGCCACAAATCACCACAGAGCCTCATGCTACATGAAATGTAA
AAGGGAGCCCAGAAATGGAGGACATTTCAATCTTTTTCTGAGGGGAAGGACTGTGACCTGCCATAAAGACTGAC
CTTGAATTCAGCCTGGGTGTTGAGGAAACATCACTCAGAACTATTGATTCAAAGTTGGGTAGTGAATCAGGAAGC
CAGTAACTGACTAGGAGAAGCTGGTATCAGAACAGCTTCCCTCACTGTGTACAGAACGCAAGAAGGGAATAGGTG
GTCTGAACGTGGTGTCTCACTCTGAAAAGCAGGAATGTAAGATGATGAAAGAGACAATGTAATACTGTTGGTCCA
AAAGCATTTAAAATCAATAGATCTGGGATTATGTGGCCTTAGGTAGCTGGTTGTACATCTTCCCTAAATCGATC
CATGTTACCACATAGTAGTTTTAGTTTAGGATTGAGTAACAGTGAAGTGTGTTACTATGTGCAAGGGTATTGAAGT
TCTTATGACCACAGATCATCAGTACTGTTGTCTCATGTAATGCTAAAACGAAATGGTCCGTGTTGTCATTGTTA
AAAATGATGTGTGAAATAGAATGAGTGCTATGGTGTGAAAACGTCAGTGTCCGTTATGAGTGCCAAAAATCTGT
CTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAATTTATTTTGATAAATAATATTG

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FIGURE 541

MQSAMFLAVQHDCRPMDKSAGSGHKSEKREKMKRTLLKDWKTRL SYFLQNSSTPGKPKTGKKSKQQAFIKPSPE
EAQLWSEAFDELLASKYGLAAFRFLKSEFCEENIEFWLACEDFKKTKSPQKLSSKARKIYTDFIEKEAPKEINI
DFQTKTLIAQNIQEATSGCFTTAQKRVYSLMENNSYPRFLESEFYQDLCKKPQITTEPHAT

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FIGURE 542

TGAAGATGAAAAAGAAGATCATAAAAAATGTGCGCCAACAACGGCAGGCGGCATCTAAAGCAGCTTCTAAACAGAG
AGAGATGCTCATGGAAGATGTGGGCAGTGAGGAAGAACAAGAAGAGGAGGATGAGGCACCATTCAGGAGAAAGA
TTCCGGCAGCGATGAAGATTTCTAATGGAAGATGATGACGATAGTGAATGAGTATGGCAGTTCGAAAAAGAAAAACAA
AAAGATGGTTAAGAAGTCCAAACCTGAAAGAAAAAGAAAAGAAAATGCCCAAACCCAGACTAAAGGCTACAGTGAC
GCCAAGTCCAGTGAAAGGCAGGAAAGGGGAAAGTGGGTGCGCCACAGCTTCAAAGGCATCAAAGGAAAAAGACTCCTTC
TCCCAAAGAAGAAGATGAGGAACCGGAAAGCCCGCCAGAAAAGAAAACATCTACAAGCCCCCAGGAGAAATC
TGGGGATGAAGGGTCTGAAGATGAAGCCCTTCTGGGGAGGATTAAAAGTGATGATGGTCTGGGGAGAGATTTTA
TTAAAAAAGAAAAAGAGGGAGGAAAAAAGAACCTACTTAAGATAGAACATGGTTTTGGCTATGGCTT
GACTCATGGGCTTTCAGTGCTTTTTTCCATTTGTTGAAAGTAACATTTCTCTCTCTCTCTCTT

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FIGURE 543

AGCCTGAGGAGCTATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTAATGAGAGACCCAAACACCAAGTGC
TCCAGGGGCTTTGGGTTTGTACATATGCCATTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAG
GTGGATGGAAGAGTTGGAGAACCAAAGAGAGCTGTTTCAAGGGAAGATTCTCAAAGACCAGGTGCTCACTTAAC
GTGAAAAAGATATTTGTTGGCAGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATAATTTGAACAGTTTG
GAAAAACGGAAGTGATTGAAATCATGACTGACTGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTG
ATGACCATGACTCTGTGAATAAGACTGCCATTGAGAAATACCATCCTACGAATGGCCATAACTGTGAAGTTAGGA
AAGCCCTGTCAAAGTAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAAGTCGAAGTGGTTCTGGAAACTTTGGTT
TGGTCGTGGAGGTGGTTTCGGTTGGCATGACAGCCGTGGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCGA
TAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAGTGATTTTGGCAACTACAATAATCA
GTCTTCAAATTTTGGACCCATGAAGGSAGGAACTTTGGAGGCAGAAGCTCTGGGCCCTATGGCGGTGGAGGCC
AATACTCTGCCAAACCACGAAACCAAGGTGGCTATGGTGGTTTCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAA
GATTTTAATTAGGAAACAAAGCTTAGCTGGAGAGGAGAGCCGAGAAGTGACAGGGAAGCTACAGGTTACAACAG
ATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAACTGCTACAAAGGAGACATGTTTTAGACAAATACTC
ATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTGTAACAGGTTATTTTAGTTTCTGTTCTGT
GGAAAGCGTAAAGCATTCACAAAGGGTTTTAATGCAGATTTTTTTTTTTTGGCACCCATGCTGTTGATTGCT
AAATGTAATAGTCTGATGGTGATGCTGAATAAATGTCTT

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FIGURE 544

AGGCAGAGCCCGCGAGGAGGTGACGCGGCTGCGGAGGTGACGCGGGAGGTGCGCGGCCCTTCCGGCGCGGGGAG
GGCGCTGAAGATCGGGGCCGCTCGGCCGCGAGGCCGCTCCAGCGCCGCGGGATGTAGCGCGGGGACCGCGGGCC
CCAGCAGAGCCCGCCTGCCCCGGCTTTTAGAAGACCAAAGTGGACAATGGACTTTGCTCACTATGATGACATGATC
TCCATTGACCTCCATTTGTCTACCATCAGAGGGAGATCTCTGCCCCCTGGGGCTGAGAGACCCCAACCTTTCCCC
AAGCTGAAGCTGCAGGGTATTGAGGTACCAGCCAGATGTCTTCCACAAAGGATCTGTGGTGGCACAGGGGAATG
GGGCTCCTGCCAGTAACAGGGAAGCTGACACGGTGGAACTGGCTGAACTGGGACCCCTGCTAGAAGAGAAGGGCA
AACGGGTAAATCGCCAACCCACCCAAAGCTGAAGAAGAGCAAACATGCCAGTGCCCCAGGAAGAAGAGGAGGAGG
TGCGGGTACTGACACTTCCCCTGCAAGCCCACCAGCCATGGAGAAGATGGAAGAGTTTGTGTACAAGGTCTGGG
AGGGACGTTGGAGGGTCATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGCTACATGGTC
ATAGACCTCCCATGCCCTCCTTTTCGGGCTTGCTTCAAGAGCATCTTCCGCATTTCATACAGAACTGGCAACATCT
GGACCCATCTGCTTGGTTTCGTGCTGTTTCTCTTTTGGGAATCTTGACCATGCTCAGACCAAATATGTACTTCA
TGGCCCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTGGGTGCAGTGCTCTGCCTCAGCTTCTCCTGGC
TCTTTCACACCGTCTATTGTCAATTCAGAGAAAGTCTCTCGGACTTTTTCCAAACTGGACTATTACGGGATTGCTC
TTCTAATTATGGGGAGCTTTGTCCCCCTGGCTCTATTATTCCTTCTACTGCTCCCCACAGCCACGGCTCATCTACC
TCTCCATCGTCTGTGTCTTGGGCATTTCTGCCATCATTGTGGCGCAGTGGGACCGGTTTGCCACTCCTAAGCACC
GGCAGACAAGAGCAGGCGTGTTCCTGGGACTTGGCTTGAGTGGCGTGTGCTGCCACCATGCACTTTACTATCGCTG
AGGGCTTTGTCAAGGCCACCACAGTGGGCCAGATGGGCTGGTTCTTCCTCATGGCTGTGATGTACATCACTGGAG
CTGGCCTTTATGCTGCTCGAATTCCTGAGCGCTTCTTTCCTGGAAAATTTGACATATGGTTCCAGTCTCATCAGA
TTTTCCATGTCTGGTGGTGGCAGCAGCCTTTGTCCACTTCTATGGAGTCTCCAACCTTCAGGAATTCCGTTACG
GCCTAGAAGGCGGCTGTACTGATGACACCCTTCTCTGAGCCTTCCACCTGCGGGGTGGAGGAGGAACCTCCCAA
GTGCTTTTAAAAATAACTTCTTTGCTGAAGTGAGAGGAAGAGTCTGAGTTGTCTGTTTCTAGAAGAAACCTCTTA
GAGAATTCAGTACCAACCAAGCTTCAGCCCACTTTACACCCCACTGGGCAATAAACTTTCCATTTCCATTCTCCT
AGCTGGGGATGGGGCATGGTCAAACCTTAGCCATCCCCCTCCTCAGCAAGGCATCTACCGGCCCTCAGAGACAG
TACTTTGAAACTCATGTTGAGATTTTACCCTCTCCTCCAACCATTTTGGGAAAATTATGGACTGGGACTCTTCAG
AAATTCTGTCTTTTCTTCTGGAAGAAAATGTCCCTCCCTTACCCCCATCCTTAACCTTTGTATCCTGGCTTATAAC
AGGCCATCCATTTTTGTAGCACACTTTTCAAAAACAATTATATACCCTGGTCCCATCTTTCTAGGGCCTGGATCT
GCTTATAGAGCAGGAAGAATAAAGCCACCAACTTTTACCTAGCCCGGCTAATCATGGAAGTGTGTCCAGGCTTCA
AGTAACTTGAGTTTTAATTTTTTTTTTTTCTTGGCAGAGTAATGTAAATTTAAATGGGGAAAGATATTTAATAT
TTAATACTAAGCTTTAAAAAGAAACCTGCTATCATTGCTATGTATCTTGATGCAAAGACTATGATGTTAATAAAA
GAAAGTACAGAAGACACTTGGCATTCAAAGATTTT

FIGURE 545

GGCCGCGGAGCGCCGGGCGGAGCTGGCTTGCGGCTCCCGGGGCCGGGCTCTCCGGCCGGAGACATAGCCCCGGGGGCCCGCCCGCTAGGCAGGCCCTCGCCCCGATACGGTGCCTATGCCCAAGAGAGGAAAGCGACTCAAGTTCGGGGCCACGACGCCCTGCTCCGGCCGAGTGACCGTGGCGGATTACGCCAACTCGGATCCGGCGGTCTGTAGAGTCTGGACGAGTCAAGAAAGCCGTAGCCAACGCTGTTTACGACAGGAAGTAAAACTCTCTTTGTGGCTTGGAAGCCCTCTCAGGTTCTCTGCA GAGGAAGCTCTTTCTGGGGCTGGTGAGCCCTGTGACATCATCGACAGCAGTGATGAGATGGATGCCAGGAGGAAAGCATCCATGAGAGAAGTGTCTCCAGAAAAAAGAAAAAGCAAGAGACACAAAGAAGAAGTGGACGGGGCTGGAGGA GAAGAGTATCCCATGGATATTTGGCTATTGCTGGCCCTCCTATATCCGTCTTGAGGACATTGTGAATTTTTCCCTGATTTGTAAGAATGCCTGGACTGTCACTTGCACCTGCTGCCCTTTTGGACCAGGTTGTACCGAAGGCACCTACACGCTG GATGCTTCCCTGCCTTTGCGTCTGCGACCAGAGTCAATGGAGAAGCTGCGCTGTCTCCGGGCTTGTGTGATCCGATCTCTGTACCATATGTATGAGCCATTTGCTGCTCGAATCTCCAAGAATCCAGCCATTCCAGAAAGCACCCCCAGC ACATTAAAGAATTCCAAATGCTTACTTTTTCTGGTGCAGAAAGATTGTTGGGAACAGACAGGAACCAATGTGGGAA TTCAACTTCAAGTTCAAAAAACAGTCCCTTAGGTTAAAGAGCAAGTGTACAGGAGGATTGCAGCCTCCCGTTTCCAG TACGAAGATGTTTCATACCAATCCAGACCAGGACTGCTGCCCTACTGCAGGTACCACCCCTCAATTTTCATCTTTATT CCGATTGTTCATGGGAATGATATTTACTCTGTTTACTATCAATGTGAGCACGGACATGCGGCATCATCGAGTGAGAC TGGTGTTCGAAGATTCCCTGTCCATGGTGGTTCGGAACCTGCGCAGTGAACAGGGTGTGCAAGTCATCCTGGAC CCAGTGCACAGCGTTCGGCTCTTTGACTGGTGGCATCCTCAGTACCCATTCTCCCTGAGAGCGTTAGTTACTGCTT CCCATCCCTTGGGGGCGAGCCTCGAGTGTAGTCCATTAGTAATCAGATTCCAGTTTGAGACAGGGTGGCTGGATTGT ATATCTCGTTTAGTAAAGTACATGCTCTTCAGGTTCTTAGGGCTCCTGTTAGGGGAGGGAGAAATGTTGAATCAAGA GGGAAAAACAACCTACTATGATTTATAAACATATTTTAAATGTAAAAATTGCAATTTAAAGGAGTGGCCCTGTTTTCT GTGTTTAAACCCTTTTGGTGTCTATTGAGTTTGTCTTTTATTCTTTTATCCAGTGAAAATTGTTGATCTTGCT GTAGGGAAAAATTAAACTCTTTGAATCTCCAAACAAGGAAGTTTTCAGCATTCCTTTATGGATCAGAGGAACCTTA GAGGCTTGAATTTGTTGCTTCCAGTTTAGCTGCCCTTCAAATTCAGTGAATATTTTCCCTTCTCCCTTTTACCCT TCTCCAGAAATAAAGCAGGTGACAGGGTTTTTCAGAACTTTAAAAA

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FIGURE 546

MARGPGPLGRPRPDTVAMPKRGKRLKFRAHDACSGRVTVADYANS DPAVVRSGRVKKAVANAVQQEVKSLCGLEA
SQVPAAEALSGAGEPCDIIDSSDEMDAQEESIHERTVSRKKKSKRHKEELD GAGGEEYPMDIWLLLAS YIRPEDI
VNFS LICKNAWTVTCTAAFWTRL YRRHYTL DASLPLRLRPESMEKLRCLRACVIRSLYHMYEPFAARISK NPAIP
ESTPSTLKNSKCLLFWCRKIVGNRQEP MWEFNFKFKKQSPRLKSKCTGGLQPPVQYEDVHTNPDQDCCLLQVTTL
NFI FIPIVMGMIFTLFTINVSTDMRHHRVRLVFQDSPVHGG RKL RSEQGVQVILDPVHSVRLFDWWHPQY PFSLR
A

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FIGURE 547

AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA
GCCGTGGGCAAGGGAAGAGGCCACACCCCTGCCCTGCTCTGCTGCAGCCAGAATGGGTGTGAAGGCGTCTCAAACA
GGCTTTGTGGTCCTGGTGCTGCTCCAGTGCTGCTCTGCATACAACTGGTCTGCTACTACACCAGCTGGTCCAG
TACCGGAAGGCGATGGGAGCTGCTTCCAGATGCCCTTGACCGCTTCCCTCTGTACCCACATCATCTACAGCTTT
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGAAATGATGTGACGCTCTACGGCATGCTCAACACACTC
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTCTGGAGGATGGAACCTTGGGTCTCAAAGATTTTCCAAG
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATCAAGTCAGTACCGCCATTTCTGCGCACCCATGGCCTTGAT
GGGCTGGACCTTGCCCTGGCTCTACCCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAG
GCCGAATTTATAAAGGAAGCCCAGCCAGGGAAAAAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTTCATTAGCATCATGACCTACGATTTT
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGA
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTTGGAGCCCCAATCTCAGGACCGGGAATT
CCAGGCCGGTTTACCAAGGAGGCAGGGACCCCTTGCCCTACTATGAGATCTGTGACTTCCCTCCGCGGAGCCACAGTC
CATAGAATCCTCGGCCAGCAGGTCCCCCTATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC
GTCAAAGCAAGGTGCAGTACCTGAAGGACAGGCAGCTGGCGGGCGCCATGGTATGGGCCCTGGACCTGGATGAC
TTCCAGGGCTCCTTCTGTGGCCAGGATCTGCGCTTCCCTCTCACCAATGCCATCAAGGATGCACTCGCTGCAACG
TAGCCCTCTGTTCTGCACACAGCACGGGGGCCAAGGATGCCCCGTCCCCCTCTGGCTCCAGCTGGCCGGGAGCCT
GATCACCTGCCCTGCTGAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA
GACTCGGGATTAGTACACACTTGTGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTTCTTC
AACTCCCTGCCCCCAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATCACCAAGGAGCCAAACATCC
TACAAGACACAGTGACCATACTAATTATACCCCTGCAAAGCCCAGCTTGAAACCTTCACTTAGGAACGTAATCG
TGTCCCTATCCTACTTCCCTTCCTAATTCCACAGCTGCTCAATAAAGTACAAGAGCTTAACAGTGTGTTGGCG
CTTTGCTTTGGTCTATCTTTGAGCGCCCACTAGACCCACTGGACTCACCTCCCCCATCTCTCTGGGTTTCCTTC
TCTGAGCCTTGGGACCCCTGAGCTTGCAGAGATGAGGCCGCCATGT

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FIGURE 548

CAGGGTAACGCTGTCTTGTGGACCCGCACTTCCCACCCGAGACCTCTCACTGAGCCCGAGCCGCGCGGACATGA
GCCACGGGAAGGGAACCGACATGCTCCCGGAGATCGCCGCCGCGTGGGCTTCCCTCTCCAGCCTCCTGAGGACCC
GGGGCTGCGTGAGCGAGCAGAGGCTTAAGGTCTTCAGCGGGGCGCTCCAGGAGGCACTCACAGAGCACTACAAAC
ACCACTGGTTTCCCGAAAAGCCGTCCAAGGGCTCCGGCTACCGCTGCATTTCGCATCAACCACAAGATGGACCCCA
TCATCAGCAGGGTGGCCAGCCAGATCGGACTCAGCCAGCCCCAGCTGCACCAGCTGCTGCCCAGCGAGCTGACCC
TGTGGGTGGACCCCTATGAGGTGTCTTACCGCATTGGGGAGGACGGCTCCATCTGCGTCTTGTACGAGGAGGCC
CACTGGCCGCTCCTGTGGGCTCCTCACCTGCAAGAACCAAGTGCTGCTGGGCCGGAGCAGCCCTCCAAGAACT
ACGTGATGGCAGTCTCCAGCTAGGCCCTTCCGCCCCCGCCCTGGGCGCCGCGTGCTCATGCTGCCGTGACAACA
GGCCACCACATACTCAACCTGGGGAACGTGATTTTTTAAATGAAGAGCTATTTATATATATTATTTTTTTTAAAG
AAAGGAGGAAAAGAAAACCAAAGTTTTTTTTTTAAGAAAAAAATCCTTCAAGGGAGCTGCTTGGAAGTGGCCTCCC
CAGGTGCCTTTGGAGAGAACTGTTGCGTGTCTTGAGTCTGTGAGCCAGTGTCTGCCTATAGGAGGGGGAGCTGTTA
GGGGGTAGACCTAGCCAAGGAGAACTGGGAGACGTTTGGCTAGCACCCCAAGAAAGATGTGAGAGGGAGCAAGCAA
GGTTAGCAACTGTGAACAGAGAGGTCGGGATTGCCCCGGGGGAGGAAGAGAGGCCAAGTTCAGAGCTCTCTGTC
TCCCCAGCCAGACACCTGCATCCCTGGCTCCTCTATTACTCAGGGGCATTTCATGCCTGGACTTAAACAATACTA
TGTTATCTTTTCTTTTATTTTTCTAATGAGGTCTGGGCAGAGAGTGAAAAGGCCTCTCCTGATTCTCTACTGTCC
TAAGCTGCTTTTCTTGAAATCATGACTTGTCTTAATTCTACCCCTCAGGGGCCTGTAGATGTTGCTTTCCAGCCA
GGAATCTAAAGCTTTGGGTTTTCTGAGGGGGGGAGGAGGGAACCTGGAGGTATTGGGGTTAGGATGGAAGGGAAC
TCTGCACAAAACCTTTGCTTTGCTAGTGTCTTTGTGTGTATGTGTGGCAAATAATTTGGGGGTGATTGCAAT
GAAATTTTGGGACCCAAAGAGTATCCACTGGGGATGTTTTTTGGCCAAAACCTCTTCTTTTGGAAACCACATGAAA
GTCTTGATGCTGCTGCCATGATCCCTTTGAGAGGTGGCTCAAAAGCTACAGGGAACCTCCAGGTCCTTTATTACTG
CCTTCTTTTCAAAAGCACAACTCTCCTCTAACCCTCCCCCTCCCCCTTCCCTTCTGGTCCGGTCCATAGAGCTACCG
TATTTTCTAGGACAAGAGTTCTCAGTCACTGTGCAATATGCCCCCTGGGTCCCAGGAGGGTCTGGAGGAAAACCTG
GCTATCAGAACCTCCTGATGCCCTGGTGGGCTTAGGGAACCATCTCTCCTGCTCTCCTTGGGATGATGGCTGGCT
AGTCAGCCTTGCAATGATTTCTTGGCTGAATGGGAGAGTGCCCCATGTTCTGCAAGACTACTTGGTATTCTTGTA
GGGCCGACACTAAATAAAAGCCAAACCTTGGGCACTGTTTTTTCTCCCTGGTGCTCAGAGCACCTGTGGGAAAGG
TTGCTGTCTGTCTCAGTACAATCCAAATTTGTCGTAGACTTGTGCAATATATACTGTTGTGGGTTGGAGAAAAGT
GGAAAGCTACACTGGGAAGAAACTCCCTTCCCTTCAATTTCTCAGTGACATTGATGAGGGTCTCCTCAAAAGACCTC
GAGTTTCCCAAACCGAATCACCTTAAGAAGGACAGGGCTAGGGCATTGAGCCAGGATGGCCACCTCCTGCTGTT
GCCCTTAGTGAGGAATCTTACCCCACTTCTCTACCCCAAGTTCTCCTCCCCACAGCCAGTCCCTTTTCTG
GATTTCTAAACTGCTCAATTTTGAATCAAAAGGTGCTATTTACCAAACACTCTCCCTACCCATTCCTGCCAGCTCT
GCCTCCTTTTCAACTCTCCACATTTTGTATTGCCTTCCCAGACCTGCTTCCAGTCTTTATTGCTTTAAAGTTCAC
TTTGGGGCCACAGACCCAAAGAGCTAATTTTCTGGTTTGTGGGTTGAAACAAAGCTGTGAATCACTGCAGGCTGTG
TTCTTGATCTTGTCTGCAACAGGTCCCTGCCTTTTTAGAAGCAGCCTCATGGTCTCATGCTTAATCTTGTCTC
TCTTCTCTTTTATGATGTTCACTTTAAAAACAACAAAACCCCTGAGCTGGACTGTTGAGCAGGCCTGTCTCTC
CTATTAAGTAAAAATAAATAGTAGTAGTATGTTTGAAGCTATTCTGACAGAAAAGACAAAGGTTACTAATTGTA
TGATAGTGTTTTTATATGGAAGAATGTACAGCTTATGGACAAATGTACACCTTTTTGTTACTTTAATAAAAATGT
AGTAGGATAAAAAAAA

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FIGURE 549

MSHGKGT DMLPEIAAAVGFLSSLLRTRGCVSEQRLKVFSGALQEALTEHYKHHWFPEKPSKSGSYRCIRINHKMD
PIISRVASQIGLSQPQLHQLLPSELTLWVDPYEVSYRIGEDGSICVLYEEAPLAASCGLLTCKNQVLLGRSSPSK
NYVMAVSS

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FIGURE 550

ATGTCCATGAGGAGCCCCATCTCTGCCAGCTGGCCCTGGATGGCGTTGGCACCATGGTGAACCTGCACCATCAAG
TCAGAGGAGAAGAAAGAGCCTTGCCACGAGGCCCCCAGGGCTCAGCCACTGCCGCTGAACCTCAGCCTGGAGAC
CCAGCCCGGGCTCCCAGGATAGTGCTGACCCCCAAGCTCCAGCCCAGGGGAATTTAGGGGCTCCTGGGACTGT
AGCTCTCCAGAGGGTAATGGGTCCCCAGAACCCAAGAGACCAGGAGCGTCGGAGGCTGCCTCTGGAAGCCAGGAG
AAGCTGGACTTCAACCGAAATTTGAAAGAAGTGGTGCCAGCCATAGAGAAGCTGTTGTCCAGTGAAGGAGGAG
AGGTTTCTAGGAAGGAACCTATGGAAGCCAAAGATGTCAAAGGGACCCAAGAGAGCCTAGCAGAGAAGGAGCTC
CAGCTTCTGGTCATGATTACCCAGCTGTCCACCCTGCGGGACCAGCTCCTGACAGCCCACTCGGAGCAGAAGAAC
ATGGCTGCCATGCTGTTTGAGAAGCAGCAGCAGCAGATGGAGCTTGCCCCGCGCAGCAGCAGGAGCAGATTGCAAAG
CAGCAGCAGCAGCTGATTACAGCAGCAGCATAAGATCAACCTCCTTCAGCAGCAGATCCAGCAGGTTAATATGCCT
TATGTCATGATCCCAGCCTTCCCCCAAGCCACCAACCTCTGCCTGTCAACCTGACTCCCAGCTGGCCTTACCC
ATTAGCCCATTCCTTGCAAACCAAGTGGAGTATCCGCTGCAGCTGCTGCACAGCCCCCTGCCCAAGTGGTGAAG
AGGCCTGGGGCCATGGCCACCCACCACCCCTGCAGGAGCCCTCCCAGCCCTGAACCTCACAGCCAAGCCCAAG
GCCCCGAGCTGCCCAACACCTCCAGCTCCCCAAGCCTGAAGATGAGCAGCTGTGTGCCCGCCCCCAGCCAT
GGAGGCCCCACGCGGGACCTGCAGTCCAGCCCCCGAGCCTGCCTCTGGGCTTCCTTGGTGAAGGGGACGCTGTC
ACCAAAGCCATCCAGGATGCTCGGCAGCTGCTGCACAGCCACAGTGGGGCCTTGGATGGCTCCCCAACACCCCC
TTCCGTAAGGACCTCATCAGCCTGGACTCATCCCCAGCCAAGGAGCGGCTGGAGGACGGCTGTGTGACCCACTG
GAGGAAGCCATGCTGAGCTGCGACATGGATGGCTCCCGCCACTTCCCCGAGTCCCGAAACAGCAGCCACATCAAG
AGGCCCATGAACGCCTTCATGGTGTGGGCCAAGGATGAGCGGAGGAAGATCCTGCAAGCCTTCCCAGACATGCAC
AACTCCAGCATCAGCAAGATCCTTGGATCTCGCTGGAAGTCCATGACCAACCAGGAGAAGCAGCCCTACTATGAG
GAACAGGCGCGGCTGAGCCGGCAGCACCTGGAGAAGTATCCTGACTACAAGTACAAGCCGCGGCCCAAGCGCACC
TGCATCGTGGAGGGCAAGCGGCTGCGCGTGGGAGAGTACAAGGCCCTGATGAGGACCCGCGCTCAGGATGCCCGC
CAGAGCTACGTGATCCCCCGCAGGCTGGCCAGGTGCAGATGAGCTCCTCAGATGTCCTGTACCCTCGGGCAGCA
GGCATGCCGCTGGCACAGCCACTGGTGGAGCACTATGTCCCTCGTAGCCTGGACCCCAACATGCCTGTGATCGTC
AACACCTGCAGCCTCAGAGAGGAGGGTGAGGGCACAGATGACAGGCACTCGGTGGCTGATGGCGAGATGTACCGG
TACAGCGAGGACGAGGACTCGGAGGGTGAAGAGAAGAGCGATGGGGAGTTGGTGGTGTCTACAGACTGATCCCGG
CTGGGTGGGCTGGCCCCCTTCTCCTCTGGGGAAGACCTTGTCCCAACTCGATGGGCACAGCCAGCCAACCTAAGA
CTATGTTGGTACTTGGACTTGTTCGTGCCCCAGAGATGGGCAAAGCTGTGCACTTGCAGATACATTCATGAGGGG
AGAGGCGCCCTCCCTTCTGAGGAGCTGTTGGCCTGGGTGGGCAGGAAGTGCAGTATGGCCATGGGCTGAGCAGG
CTGAGCACCTCAGCCTTTAGGGCTTATGGCCAGGGGACACTGTATGACTCTCCTCTCCTGCAGGTGTCTATCCAC
CTGGGGTATGGCATCTACCGACCTGCTCCTGGGGTACATGCTTTGTTTCCATTCTTGTCTGGCTGGACCAG
CCACTGTGGGACCAACACCCCTCCCACACTCCCCAGACTGCTCGTCTATCACCAGGATCGCTTTGTACTTTGTG
CAAAAGGGTCTGGCTGTCCCTTGCTGTTTTTCATCTCTGCCAAGCCTATTGTGCCTCTGGCTGCTGTATGTGTGCG
CGTGACGTGTGTGTGTTTCATCTGTTCACTGCACAAGATATTTATTGAGTGCCCACTACGTGCCAGGCAC
TGTTGCTGAGTTCTGTGGGTGTGTCTCTCGATGCCACTCCTGCTTCTCTGGGGGCTCTTTCTGTGCTTCTCTT
TGTCCCCAAATTGCTACCTCTTTGTGAGTCTGGGTGTCTCAGGTTCTGTGTGCTCCTTGTGTGCAATTTCTGTCTCT
CTCTGTCTCGTCTCTCTGCAAGGCCCTCTATTTCTCTCTTTCTTGGTGTCTGTCTTTGCCCCCTGTGCCCTCT
GGATTCTCTGGGTCTATGTAGGCCCTGGTCTGCCCTGGGCTCATCAGCCTTCTGACCTCCTCCTGCCCTCCCC
TTCACTCCCTCCCTGGCTCTGCCAGTGGTTCCACGGAGCCATTTTTAGCTCTGATCAGCATGGGAATGTGCCT
CGGCCTCCAAGGGGCTTTGTCTGGTGGCCCCGCCCCCTGGTCCCAACCTGATCCCACGAGGGAGTTGGGACAGGA
GGATTGATGGTGTCTCCCTTCTGCCAGCGTCAGAGGCCCTGGAGAGGGGCTGTCCATGGCAGCTGGTCTTTATT
CCTCCCTCATGAGCACAGGGTCGGGGGGGTCCCCATTCTTGGAAGAGGTTGAGAAGACTCCTGGGCTTCAGCCTC
TCCCACCCAGCCCTGCCCTCACCTGCCCTGCCCTCCCCCTCCCCACTCTATACTAGGGACTGGATCTCAGCCTCT
GATCAGTTTCAAAAGTTTGTTCCTAAGGAAATCAAATCCCATTTGTACCTAACTCTGAAGATCTAAATAGCCC
TTGGATCAGTATGGGAACCCCAAATCCACAGGGCCAGATGTGGAGTCTGTGTCTGCCCCGCTTCTCTCCATC
CTCAAAGCCCCCACTTCTCTCCAGGCTGTTTCTTTTTTATGACTGTAAACATAGATAGTGCTTTATTTTGTAA
TAATAAGATAATGATGAGTAACTTAACCAGCACATTTCTCCTGTTTACACTCGGGGGATTTTTTTGTTTTCTGAT
GACATAATAAAGACAGATCATTTTCAGAAAAAAAAAAAAAAAAA

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FIGURE 551

MSMRSPISAQLALDGVGTMVNCTIKSEEEKKEPCHEAPQGSATAAEPQPGDPARASQDSADPQAPAQGNFRGSWDC
SSPEGNGSPEPKRPGASEAASGSQEKLDNFNRNLKEVVPKIEKLLSSDWKERFLGRNSMEAKDVKGTTQESLAEKEL
QLLVMIHQSTLRDQLLTAHSEQKNMAAMLFEKQQQQMELARQQQEQLAKQQQQLIQQQHKINLLQQQIQQVNM
YVMIPAFPPSHQPLPVTSDQLALPIQPIPCPKPVEYPLQLLHSPAPVVKRPGAMATHHPLQEPSQPLNLTAKPK
APELPNTSSSPSLKMSSCVPRPPSHGGPTRDLQSSPPLPLGLGEGDAVTKAIQDARQLLHSHSGALDGSPTNP
FRKDLISLDSSPAKERLEDGCVHPLLEAMLSCDMDGSRHFPESRNSSHIKRPMAFMVWAKDERRKILQAFPMH
NSSISKILGSRWKSMTNQEKQPYEEQARLSRQHLEKYPDYKYKPRPKRTCIVEGKRLRVGEYKALMRTRRDAR
QSYVIPQAGQVQMSSSDVLYPRAAGMPLAQPLVEHYVPRSLDPNMPVIVNTCSLREEGEGTDDRHSVADGEMYR
YSEDEDSEGEKSDGELVVLTD

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FIGURE 552

AACTGCCATCTTCCAGTAATTCGCCAAAATGACGAATACAAAGGGAAAGAGGAGAGGCACCCGATGTATGTTCTC
TAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCGAGTCTATAAGAAAGGTGATATTGTAGA
CATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACACGCGTTACCACGGCAAAACTGGAAGAGTCTACAA
TGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAAGGCAAGATTCTTGCCAAGAGAATTAATGT
GCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAA
GAAAGAAGCCAAAGAGAAAAGTTACCTGGATTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGT
GAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTTAAAAAA
AAAAA

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FIGURE 553A

GCTTTCAGGCGATCTGGAGAAAGAACGGCAGAACACACAGCAAGGAAAGGTCCTTTCTGGGGATCACCCCATTGG
CTGAAGATGAGACCATTCTTCCTCTTGTGTTTTGCCCTGCCTGGCCTCCTGCATGCCCAACAAGCCTGCTCCCGT
GGGGCCTGCTATCCACCTGTTGGGGACCTGCTTGTGGGAGGACCCGGTTTCTCCGAGCTTCATCTACCTGTGGA
CTGACCAAGCCTGAGACCTACTGCACCCAGTATGGCGAGTGGCAGATGAAATGCTGCAAGTGTGACTCCAGGCAG
CCTCACAACCTACTACAGTCACCGAGTAGAGAATGTGGCTTCATCCTCCGGCCCCATGCGCTGGTGGCAGTCCAG
AATGATGTGAACCTGTCTCTCTGCAGCTGGACCTGGACAGGAGATTCCAGCTTCAAGAAGTCATGATGGAGTTC
CAGGGGCCCCATGCCCGCCGGCATGCTGATTGAGCGCTCCTCAGACTTCGGTAAGACCTGGCGAGTGTACCAGTAC
CTGGCTGCCGACTGCACCTCCACCTTCCCTCGGGTCCGCCAGGGTCGGCCTCAGAGCTGGCAGGATGTTCCGGTGC
CAGTCCCTGCCTCAGAGGCCAATGCACGCCTAAATGGGGGGAAGGTCCAACCTTAACCTTATGGATTTAGTGTCT
GGGATTCCAGCAACTCAAAGTCAAAAATTCAAGAGGTGGGGGAGATCACAAACTTGAGAGTCAATTTACCAGG
CTGGCCCCCTGTGCCCAAAGGGGCTACCACCTCCAGCGCCTACTATGCTGTGTCCCAGCTCCGTCTGCAGGGG
AGCTGCTTCTGTACGGCCATGCTGATCGCTGCGCACCCAAGCCTGGGGCCTCTGCAGGCCCCCTCCACCGCTGTG
CAGGTCCACGATGTCTGTGTCTGCCAGCACAACTGCCGGCCCCAAATTGTGAGCGCTGTGCACCTTCTACAAC
AACCGGCCCTGGAGACCGGCGGAGGGCCAGGACGCCCATGAATGCCAAAGGTGCGACTGCAATGGGCACTCAGAG
ACATGTCACTTTGACCCCGCTGTGTTTGCCGCCAGCCAGGGGGCATATGGAGGTGTGTGTGACAATTGCCGGGAC
CACACGAAGGCAAGAAGTGTGAGCGGTGTGAGCTGCACTATTTCCGGAACCGGCGCCCGGAGCTTCCATTTCAG
GAGACCTGCATCTCCTGCGAGTGTGATCCGGATGGGGCAGTGCCAGGGGCTCCCTGTGACCCAGTGACCGGGCAG
TGTGTGTGCAAGGAGCATGTGCAGGGAGAGCGCTGTGACCTATGCAAGCCGGGCTTCACTGGACTCACCTACGCC
AACCCGCAGGGCTGCCACCGCTGTGACTGCAACATCCTGGGGTCCCGGAGGGACATGCCGTGTGACGAGGAGAGT
GGGCGCTGCCTTTGTCTGCCAACGTGGTGGGTCCCAAATGTGACCAGTGTGCTCCCTACCACTGGAAGCTGGCC
AGTGGCCAGGGCTGTGAACCGTGTGCCTGCGACCCGCACAACCTCCCTCAGCCACAGTGAACCAAGTTCACAGG
GCAGTGCCCTGTGCGGAAGGCITTTGGTGGCCTGATGTGCAGCGCTGCAGCCATCCGCCAGTGTCCAGACCGGACC
TATGGAGACGTGGCCACAGGATGCCGAGCCTGTGACTGTGATTTCCGGGGAACAGAGGGCCCCGGGCTGCGACAAG
GCATCAGGCCCGCTGCCTCTGCCGCCCTGGCTTGACCGGGCCCCGCTGTGACCAGTGCCAGCGAGGCTACTGCAAT
CGCTACCCGGTGTGCGTGGCCTGCCACCTTGCTTCCAGACCTATGATGCGGACCTCCGGGAGCAGGCCCTGCGC
TTTGGTAGACTCCGCAATGCCACCGCCAGCCTGTGGTCAGGGCCTGGGCTGGAGGACCGTGGCCTGGCCTCCCGG
ATCCTAGATGCAAAGAGTAAGATTGAGCAGATCCGAGCAGTTCTCAGCAGCCCCGAGTCACAGAGCAGGAGGTG
GCTCAGGTGGCCAGTGCCATCCTCTCCCTCAGGCGAACTCTCCAGGGCCTGCAGCTGGATCTGCCCTGGAGGAG
GAGACGTTGTCCCTTCCGAGAGACCTGGAGAGTCTTGACAGAAGCTTCAATGGTCTCCTTACTATGTATCAGAGG
AAGAGGGAGCAGTTTGAAAAATAAGCAGTGTGATCCTTCAGGAGCCTTCCGGATGCTGAGCACAGCCTACGAG
CAGTCAGCCCAGGCTGCTCAGCAGGTCTCCGACAGCTCGCGCCTTTTGGACCAGCTCAGGGACAGCCGGAGAGAG
GCAGAGAGGCTGGTGCGGCAGGCGGGAGGAGGAGGAGGACCGGCAGCCCCAAGCTTGTGGCCCTGAGGCTGGAG
ATGTCTTCGTTGCTGACCTGACACCCACCTTCAACAAGCTCTGTGGCAACTCCAGGCAGATGGCTTGACCCCCA
ATATCATGCCCTGGTGAGCTATGTCCCAAGACAATGGCACAGCCTGTGGCTCCCGCTGCAGGGGTGTCTTCCC
AGGGCCGGTGGGGCCTTCTTGATGGCGGGCAGGTGGCTGAGCAGCTGCGGGGCTTCAATGCCAGCTCCAGCGG
ACCAGGCAGATGATTAGGGCAGCCGAGGAATCTGCCTCACAGATTCAATCCAGTGCCCAGCGCTTGAGACCCAG
GTGAGCGCCAGCCGCTCCCAGATGGAGGAAGATGTGACACGCACACGGCTCCTAATCCAGCAGGTCCGGGACTTC
CTAACAGACCCCGACACTGATGCAGCCACTATCCAGGAGGTGAGCGAGGCGCTGCTGGCCCTGTGGCTGCCACA
GACTCAGCTACTGTTCTGCAGAAGATGAATGAGATCCAGGCCATTGCAGCCAGGCTCCCCAACGTGGACTTGGTG
CTGTCCCAGACCAAGCAGGACATTGCGCGTGGCCGCGGTTGACAGGCTGAGGCTGAGGAAGCCAGGAGCCGAGCC
CATGCAGTGGAGGGCCAGGTGGAAGATGTGGTTGGGAACCTGCGGCAGGGGACAGTGGCACTGCAGGAAGCTCAG
GACACCATGCAAGGCACCAGCCGCTCCCTTCGGCTTATCCAGGACAGGGTTGCTGAGGTTTCCAGGTAAGTGCAG
CCAGCAGAAAAGCTGGTGACAAGCATGACCAAGCAGCTGGGTGACTTCTGGACACGGATGGAGGAGCTCCGCCAC
CAAGCCCGGCAGCAGGGGGCAGAGGCAGTCCAGGCCCAGCAGCTTGCAGGAGGTGCCAGCGAGCAGGCATTGAGT
GCCCAAGAGGGATTGAGAGAATAAAACAAAAGTATGCTGAGTTGAAGGACCGGTTGGGTGAGAGTTCCATGCTG
GGTGAGCAGGGTGGCCGATCCAGAGTGTGAAGACAGAGGCAGAGGAGCTGTTGGGGAGACCATGGAGATGATG
GACAGGATGAAAGACATGGAGTTGGAGCTGCTGCGGGCAGCCAGGCCATCATGCTGCGCTCGGCGGACCTGACA
GGACTGGAGAAGCGTGTGGAGCAGATCCGTGACCACATCAATGGGCGCGTGTCTACTATGCCACCTGCAAGTGA

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FIGURE 553B

TGCTACAGCTTCCAGCCCGTTGCCCCACTCATCTGCCGCCTTTGCTTTTGGTTGGGGGCAGATTGGGTTGGAATG
CTTTCCATCTCCAGGAGACTTTCATGCAGCCTAAAGTACAGCCTGGACCACCCCTGGTGTGTAGCTAGTAAGATT
ACCCTGAGCTGCAGCTGAGCCTGAGCCAATGGGACAGTTACACTTGACAGACAAAGATGGTGGAGATTGGCATGC
CATTGAAACTAAGAGCTCTCAAGTCAAGGAAGCTGGGCTGGGCAGTATCCCCCGCCTTTAGTTCTCCACTGGGGA
GGAATCCTGGACCAAGCACAAAACTTAACAAAAGTGATGTAAAAATGAAAAGCCAAATAAAAAATCTTTGG

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FIGURE 554

MRPFLLCFALPGLLHAQQACSRGACYPPVGDLLVGRTRFLRASSTCGLTKPETYCTQYGEWQMKCKCDSRQPH
NYYSHRVENVASSSGPMRWWQSQNDVNPVSLQLDLDRRFQLQEVMMEFQGPMPAGMLIERSSDFGKTWRVYQYLA
ADCTSTFPRVRQGRPQSWQDVRCQSLPQRPNARLNGGKVQLNMDLVSGIPATQSQKIQEVGEITNLRVNFTRLA
PVPQRGYHPPSAYYAVSQLRLQGSCFCHGHADRCAPKPGASAGPSTAVQVHDVCVCQHNTAGPNCERCAPFYNNR
PWRPAEGQDAHECQRCDNCGHSETCHFDPAVFAASQAYGGVCDNCRDHTEGKNCERCQLHYFRNRRPGASIQET
CISCECDPDGAVPGAPCDPVTGQCVCKEHVQGERCDLCKPGFTGLTYANPQGCHRCDCNIGSRRDMPCEESGR
CLCLPNVVGPKCDQCAPYHWKLASGQGCEPCACDPHNSPQPTVQPVHRAVPCREGFGGLMCSAAAIRQCPDRTYG
DVATGCRACDCDFRGTEGPGCDKASGRCLCRPGLTGPRCDQCQRGYCNRYPCVACHPCFQTYDADLREQALRFG
RLRNATASLWSGPGLEDRLASRILDASKIEQIRAVLSSPAVTEQEVAQVASAILSLRRTLQGLQLDLPLEEET
LSLPRDLES�DRSFNGLLTMYQRKREQFEKISSADPSGAFRMLSTAYEQSAQAAQVSDSSRLLDQLRDSRREAE
RLVRQAGGGGGTGSPKLVALRLEMSSLPDLTPTFNKLCGNSRQMACTPISCPGELCPQDNGTACGSRCRGVLPRA
GGAFLMAGQVAEQLRGFNAQLQRTQMIRAAEESASQIQSSAQRLTQVSASRSQMEEDVRRTLLIQQVRDFLT
DPDIDAATIQEVSEAVLALWLPTDSATVLQKMNEIQAIARLPNVDLVLSTKQDIARARRLQAEAEARSRAHA
VEGQVEDVVGNLRRQGTVALQEAQDTMQGTSRSLRLIQDRVAEVQVLRPAEKLVTSMKQLGDFWTRMEELRHQA
RQQGAEAVQAQQLAEGASEQALSAQEGFERIKQKYAELKDRLGQSSMLGEQGARIQSVKTEAEELFGETMEMMDR
MKDMELELLRGSQAIMLRSADLTGLEKRVEQIRDHINGRVLYYATCK

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FIGURE 555

GCGGAGTCTCCAAC TGGGAGAGCTGCAGCTGCCGAGAGGAGGAGAACGCTGAGGTCGGTCGGACCAACGGACGCG
CTGACCGCTGCCAACTGCAGCTCGCGCTGCCTCCTGCTCGCGCCGTGCCACTAAGGTCACTCCCGCCTCCGAGAG
CCCAGAGCCGAGATGGAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCCAGAAGCGCAAGGGG
AAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCCTGATGGAGACTGTG
TGCAGCCCCCTTCACGGCCGCCAGACGTCTGCGGGACCAGGAGGCAGCCGTGGCGGAGCTGCAGGCCGCCCTGGAG
CGACAGGCTCTCCAGAAGCAAGCCCTGCAGGAGAAAGGCAAGCAGCAGGACACGGTCCTCGGCGGCCGGGCCCTG
TCCAACCGGCAGCACGCCTCCTAGGAAGTGTGGGAGACCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAG
ACCGAGAAGGAAGGGAGAGACAGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGT
GCTGTTTTTTTATTTGGACTTAACTTCAGAGAAACCGCTGACATCTAGAAGTACCTACCACAAGCATCCACCAA
GGAGTTTGGGATTGAGTTTTGCTGCTGTGCAGCACTGCATTGTGATGACATTTCCAACACTGTGTGAATTATCTA
AATGCGTCTACCATTTTGCAGTAGGGAGGAAGGATAAATGCTTTTTATGTTATTATTATTAAATTATTACAATGAC
CACCATTTTGCATTTTGAATAAAAAAATTTTTATACCAAAAAAAAAAAAAAAAAA

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FIGURE 556

METVQELIPLAKEMMAQKRKGKMKLYVLGSVLALFGVVLGLMETVCSPFTAARRLRDQEAAVAELQAALERQAL
QKQALQEKKGKQQDTVLGGRALSNRQHAS

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FIGURE 557

CCCGCCTCCGAGAGCCCAGAGCCGAGATGGAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCC
AGAAGCGCAAGGGGAAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCC
TGATGGAGACTGTGTGCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAGACCGAGAGAGGAATGGAGAGAC
AGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGTGCTGTTTTTTATTGGACTTA
ACTTCAGAGA

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FIGURE 558

CCGCTGGGCGTAGCTGCGACTCGGCGGAGTCCCGGCGGCGCGTCCCTTGTCTAACCCGGCGCGCCATGACCGTCG
CGCGGCCGAGCGTGCCCGGCGCTGCCCCTCCTCGGGGAGCTGCCCCGGCTGCTGCTGGTGCTGTTGTGCC
TGCCGGCCGTGTGGGGTGACTGTGGCCTTCCCCAGATGTACCTAATGCCAGCCAGCTTTGGAAGGCCGTACAA
GTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAG
TGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAGGTGCCAACAAGGC
TAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTTCCAGTCGGTACTGTTGTGGAATATGAGT
GCCGTCCAGGTTACAGAAGAGAACCTTCTCTATCACCAAACTAAGTTGCCTTCAGAATTTAAAATGGTCCACAG
CAGTCGAATTTTGTAAAAAGAAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTG
GCATATTATTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACTTCTAGTTTTT
GTCTTATTTTCAAGGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCGAGAGAAATTTATTGTCCAGCACCAC
CACAAATTGACAATGGAATAATTCAAGGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGTA
ATAAAGGATTACCATGATTGGAGAGCACTCTATTTATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCC
CACCACCTGAATGCAGAGGAAAATCTCTAACTTCCAAGGTCCCACCAACAGTTCAGAAACCTACCACAGTAAATG
TTCCAACCTACAGAAGTCTCACCAACTTCTCAGAAAACCAACACAAAACCAACCAAAATGCTCAAGCAACAC
GGAGTACACCTGTTTCCAGGACAACCAAGCATTTTTCATGAAACAACCCCAAATAAAGGAAGTGAACCACTTCAG
GTACTACCCGTCTTCTATCTGGGCACACGTGTTTACGTTGACAGGTTTGCTTGGGACGCTAGTAACCATGGGCT
TGCTGACTTAGCCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTTCTAGTTTCTTAGACTTA
TCTGCATATTGGATAAAATAAATGCAATTGTGCTCTTCATTTAGGATGCTTTCATTGTCTTTAAGATGTGTTAGG
AATGTCAACAGAGCAAGGAGAAAAAAGGCAGTCCTGGAATCACATTCTTAGCACACCTACACCTCTTGAAAATAG
AACAACCTGCAGAATTGAGAGTGATTCTTTTCTAAAAGTGTAAGAAAGCATAGAGATTTGTTTCGTATTTAGAAT
GGGATCACGAGGAAAAGAGAAGGAAAGTGATTTTTTCCACAAGATCTGTAATGTTATTTCCACTTATAAAGGAA
ATAAAAAATGAAAAACATTATTTGGATATCAAAAGCAAATAAAAAACCAATTCAGTCTCTTCTAAGCAAAATTGC
TAAAGAGAGATGAACCACATTATAAAGTAATCTTTGGCTGTAAGGCATTTTCATCTTTCCTTCGGGTTGGCAAAA
TATTTTAAAGGTAAAACATGCTGGTGAACCAGGGGTGTTGATGGTGATAAGGGAGGAATATAGAATGAAAGACTG
AATCTTCCTTTGTTGCACAAATAGAGTTTGGAAAAAGCCTGTGAAAGGTGTCTTCTTTGACTTAATGTCTTTAAA
AGTATCCAGAGATACTACAATATTAACATAAGAAAAGATTATATATTATTTCTGAATCGAGATGTCCATAGTCAA
ATTTGTAAATCTTATTCTTTTGTAAATATTTATTTATTTATTTATGACAGTGAACATTCTGATTTTACATGTAA
AACAAGAAAAGTTGAAGAAGATATGTGAAGAAAATGTATTTTCTTAAATAGAAATAAATGATCCCATTTTTTG
GT

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FIGURE 559

MTVARPSVPAALPLLGEIPRLLLLVLLCLPAVWGDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGE
KDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLSPKLTCLQNLK
WSTAVEFCKKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFC LISGSSVQWSDPLPECREIYC
PAPPQIDNGIIQGERDHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDGEWSGPPPECRGKSLTSKVPPTVQKPT
TVNVPTTEVSPTSQKTTTKTTTPNAQATRSTPVSRTTKHFHETTPNKGSGTTS GTTRLLSGHTCFTLTGLLGLV
TMGLLT

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FIGURE 560A

GTGGATTTGGTCGTCTCCCTGATTCCGAGCTGCGGGCAGGGAGAGGGGCCTCGCGCCGCCCTCAGCAGCCGGCGG
CGGCCGAGGTAGACCGAGCGGGGACGGAAGGACAGACCGACGTCGCCGAGCTGGAATCATGTGAGGGCCAACCGG
GGAAGGTGGAGCAGATGAGCACACACAGGAGCCGTCTCCTACCGCCGCCCTCTCAGCATGGAACAGAGGCGGC
CCTGGCCCCGGGCCCTGGAGGTGGACAGCCGCTCTGTGGTCTGCTCTCAGTGGTCTGGGTGCTGCTGGCCCCC
CAGCAGCCGGCATGCCTCAGTTCAGCACCTTCCACTCTGAGAATCGTGACTGGACCTTCAACCACTTGACCGTCC
ACCAAGGGACGGGGGCCGTCTATGTGGGGGCCATCAACCGGGTCTATAAGCTGACAGGCAACCTGACCATCCAGG
TGGCTCATAAGACAGGGCCAGAAGAGGACAACAAGTCTTGTTACCCGCCCTCATCGTGACGCCCTGCAGCGAAG
TGCTCACCTCACCAACAATGTCAACAAGCTGCTCATCATTGACTACTCTGAGAACCCTGCTGGCCTGTGGGA
GCCTCTACCGGGGGTCTGCAAGCTGCTGCGGCTGGATGACCTCTTCATCCTGGTGGAGCCATCCCACAAGAAGG
AGCACTACCTGTCCAGTGTCAACAAGACGGGCACCATGTACGGGGTGATTGTGCGCTCTGAGGGTGAGGATGGCA
AGCTCTTCATCGGCACGGCTGTGGATGGGAAGCAGGATTACTTCCCGACCCTGTCCAGCCGGAAGCTGCCCGAG
ACCCTGAGTCCTCAGCCATGCTCGACTATGAGCTACACAGCGATTTTGTCTCCTCTCTCATCAAGATCCCTTCAG
ACACCCTGGCCCTGGTCTCCCACTTTGACATCTTCTACATCTACGGCTTTGCTAGTGGGGGCTTTGTCTACTTTC
TCACTGTCCAGCCCGAGACCCCTGAGGGTGTGGCCATCAACTCCGCTGGAGACCTCTTCTACACCTCACGCATCG
TGCGGCTCTGCAAGGATGACCCCAAGTTCACCTCATACGTGTCCCTGCCCTTCGGCTGCACCCGGGCGGGGTGG
AATACCGCCTCCTGCAGGCTGCTTACCTGGCCAAGCCTGGGGACTCACTGGCCAGGCCCTTCAATATCACCAGCC
AGGACGATGTACTCTTTGCCATCTTCTCCAAAGGGCAGAAGCAGTATCACCACCCGCCGATGACTCTGCCCTGT
GTGCCTTCCCTATCCGGGCCATCAACTTGAGATCAAGGAGCGCCTGCAGTCTGCTACCAGGGCGAGGGCAACC
TGGAGCTCAACTGGCTGCTGGGGAAGGACGTCCAGTGACCAAGGCGCCTGTCCCATCGATGATAACTTCTGTG
GACTGGACATCAACCAGCCCCCTGGGAGGCTCAACTCCAGTGGAGGGCCTGACCCTGTACACCACCAGCAGGGACC
GCATGACCTCTGTGGCCTCCTACGTTTACAACGGCTACAGCGTGGTTTTTGTGGGGACTAAGAGTGGCAAGCTGA
AAAAGATTGCGGGCCGACGGTCCCCCCCATGGTGGGGTCCAGTACGAGATGGTCTCTGTGCTCAAGGACGGAAGCC
CCATCCTCCGGGACATGGCCTTCTCCATTGATCAGCGCTACCTGTACGTCATGTCTGAGAGACAGGTCACCAGGG
TCCCCGTGGAGTCATGTGAGCAGTATACGACTTGTGGGGAGTGCCTGAGCTCTGGGGACCCTCACTGTGGCTGGT
GTGCCCTGCACAACATGTGCTCCCGCAGGGACAAATGCCAACAGGCCTGGGAACCTAATCGATTTGCTGCCAGCA
TCAGCCAGTGTGTGAGCCTTGCAGTGCATCCAGCAGCATCTCAGTATCTGAGCACAGCCGGTTGCTTAGCCTGG
TAGTGAGTGATGCTCCTGATCTATCTGCGGGTATCGCCTGTGCCTTTGGGAACCTGACAGAGGTGGAGGGCAGG
TGTCCGGGAGCCAGGTCATCTGCATCTCACCTGGGCCCAAGGATGTCCCTGTCATCCCGCTGGATCAAGACTGGT
TTGGGCTGGAGCTACAGCTGAGGTCCAAGGAGACAGGGAAGATATTTGTGAGCACCAGGTTCAAGTTTTACAAC
GCAGTGCCCACTGTGCCTGTCTGTCAACAGCGCCTTCCGCTGCCATTGGTGCAAGTACCGCAACCTCT
GCACTCATGACCCACCACTGCTCCTTCCAGGAGGGCCGGATCAATATTTAGAGGACTGTCCCAGCTGGTGC
CCACAGAGGAGATCTTGATTCCAGTCGGGGAGGTAAAGCCAATCACCTTAAGGCGCGAAATCTGCCCCAGCCGC
AGTCCGGCCAGCGAGGCTATGAGTGTGTCTCAACATAACAAGAGCCATCCACCGGGTCCCGCTCTGCGCTTCA
ACAGCTCCAGCGTTCAGTGTGAGAACAGCTCGTACCAGTATGATGGCATGGACATCAGCAATCTGGCCGTGGATT
TCGCTGTGGTGTGGAACGGCAATTTATCATTGACAACCTCAGGACCTGAAAGTCCATCTCTACAAGTGTGCAG
CCCAGCGGGAGAGCTGCGGCCCTGTGCCTCAAGGCCGACCGGAAGTTTGAGTGTGGCTGGTGCAGCGGCGAGCGCA
GGTGCACCTCCACCAGCACTGTACCAGCCCTTCCAGCCCTGGCTCGACTGGTCCAGCCACAATGTCAAGTGCT
CCAACCTCAAAATCACCGAGATTTTGACGGTGTCTGGACCGCCGGAAGGAGGGACGCGAGTGACCATCCATGGCG
TGAACCTGGGTCTGGACTTCTCCGAGATCGCCCACCATGTGCAGGTGGCTGGGGTGCCTGCACGCCCTCCAG
GGGAATACATCATCGCTGAGCAGATTGTCTGTGAGATGGGCCATGCCCTCGTGGGAACCACCTCCGGGCCAGTAC
GCCTGTGTATTGGCGAGTGTAAAGCCAGAGTTTATGACGAAGTCCCATCAGCAGTACACCTTCGTGAACCTTCTG
TGCTGTCACTCAACCAATCCGAGGTCCCGAGTCAGGAGGCACTATGGTGACCATTACCGGCCATTACCTTGGGG
CTGGGAGCAGCGTGGCAGTCTACCTGGGCAACCAGACCTGCGAGTTCTACGGGAGGTCAATGAGTGAGATCGTGT
GTGTCTCACCCCCATCATCCAATGGCCTTGGCCCGGTCCCTGTTTCTGTGAGTGTGACCGAGCCCATGTGGATA
GCAACCTGCAGTTTGAGTACATAGATGACCTCGGGTCCAGCGCATCGAGCCAGAGTGGAGCATTGCCAGTGGCC
ACACACCCCTGACCATCACAGGCTTCAACCTGGATGTCAATCAGGAGCCAAGGATCCGAGTCAAATTCAATGGCA
AAGAATCTGTCAATGTGTGTAAAGTTGTGAACACAACCACCTCACCTGCCTGGCACCCTCTCTGACCACGGACT
ACCGCCCTGGCCTGGACACTGTGGAACGCCCAGATGAGTTTGGATTTGTCTTTACAATGTCCAATCCTTGCTAA

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FIGURE 560B

TTTACAACGACACCAAGTTTATCTACTACCCCAACCCGACCTTTGAACTGCTTAGCCCTACTGGAGTCTTGGATC
AAAAGCCAGGATCGCCCATCATTTCTGAAGGGCAAAAACCTCTGCCCTCCTGCCTCTGGAGGGGCCAAACTCAACT
ACACTGTGCTCATCGGAGAGACCCCTTGTGCTGTACCGTATCTGAGACCCAGCTTCTCTGCGAGCCTCCCAACC
TCACCGGGCAGCACAAAGGTCATGGTTCACGTGGGCGGGATGGTGTCTCGCCTGGCTCGGTGAGTGTATCTCAG
ACAGCTTGCTGACCCTGCCAGCCATCGTCAGCATCGCGGCCGGCGGCAGCCTCCTCCTCATCATCGTCATCATCG
TCCTCATTGCCTACAAGCGCAAGTCTCGAGAAAATGACCTCACTCTCAAGCGGCTGCAAATGCAGATGGACAATC
TGGAGTCCCGTGTGGCCTTGGAGTGCAAGGAAGCTTTTGTGCTGAGCTCCAGACGGATATCAATGAGTTGACCAGTG
ACCTGGACCGCTCAGGAATCCCTTACCTGGACTATCGTACCTACGCTATGCGAGTCCTGTTCCCGGGCATCGAGG
ACCACCCCGTCTGCGGGAGCTGGAGGTACAAGGAAACGGGCAGCAGCACGTGGAGAAGGCCCTGAAGCTCTTTG
CCCAGCTCATCAACAACAAGGTGTTCTGCTGACCTTCATCCGCACCCTGGAGCTGCAGCGCAGTTTCTCCATGC
GCGACCGGGGCAACGTGGCTTCGCTCATATGACCGGCCTGCAGGGCCGCTTGGAAATATGCCACTGATGTCTCA
AGCAGCTGCTCTCTGACCTCATCGATAAGAACCTGGAGAACAAGAACCACCCCAAGCTGCTACTCCGGAGGACAG
AGTCTGTGGCTGAAAAGATGCTGACCAATTGGTTTCGCCTTCCTCCTGCACAAAGTTCCTAAAGGAGTGCGCAGGGG
AGCCACTCTTCATGCTATACTGTGCCATCAAGCAGCAGATGGAGAAGGGCCCCATTGATGCCATCACGGGCGAGG
CCCGCTACTCCCTGAGCGAGGACAAGCTCATCCGGCAGCAGATCGAGTACAAGACCCTGATCCTGAAGTGCCTCA
ACCCTGACAACGAGAACAGTCCAGAGATCCCAGTGAAGGTGTTAAACTGTGACACCATCACACAGGTCAAGGAGA
AGATTCTTGATGCCGTGTATAAGAATGTGCCCTATTCCCAGCGGCCGAGGGCAGTGGACATGGACTTGGAGTGGC
GCCAAGGCCGGATCGCCCGGTGCTGCTGCAAGATGAGGACATCACCAAGATTGAGGGTGACTGGAAGCGGC
TCAACACACTGATGCATTATCAGGTGTGAGCAGGTGCGTGGTGGCTCTGGTCCCCAAACAGACCTCCTCCTACA
ACATCCCTGCCTCTGCCAGCATCTCCCGACGTCCATCAGCAGATACGGTGACTCCTCCTTCAGGTATACGGGCA
GCCCCGACAGCTGCGGTCCCGGGCCCCGATGATCACCCAGACCTGGAAAGTGGGGTCAAGGTGTGGCATCTGG
TGAAGAACCATGACCACGGTGACCAGAAGGAGGGTGACCGGGGCAGCAAGATGGTGTCCGAGATCTACCTGACCC
GGCTACTGGCCACCAAGGGCACCCCTGCAGAAGTTTGTGGACGACTTGTGAGACCTTGTTCAGCACTGTGCACC
GGGGCAGCGCTCTCCCCCTGGCCATCAAGTACATGTTTGATTTCCTAGATGAGCAGGCAGACAGGCACAGCATCC
ATGACACAGATGTGCGGCACACCTGGAAAAGCAACTGCCTCCCTCTGCGCTTCTGGGTGAACGTGATTAAGAACC
CCCAGTTCGTGTTTGACATCCACAAGGGCAGCATCACGGACGCTGCCTCTCTGTGGTGGCCAGACCTTCATGG
ACTCTTGTCAACGTGAGACACCGCTGGGCAAGGACTCCCCCTCCAACAAGCTGCTCTATGCCAAGGACATCC
CCAGCTACAAGAGCTGGGTGGAGAGATACTACGCAGACATCGCCAAGCTCCCAGCCATCAGTGACCAGGACATGA
ATGCCTACCTCGCCGAGCAGTCCCGCCTGCACGCCGTGGAGTTCAACATGCTGAGTGCCCTCAATGAGATCTACT
CCTATGTCAGCAAGTATAGTGAGGAGCTCATCGGGCCCTAGAGCAGGATGAGCAGGCACGGCGGCAGCGGCTGG
CTTATAAGGTGGAGCAGCTCATTAAATGCCATGTCCATTGAGAGCTGAGAGGAGGAGCCTCGCATTCTTGGGAAGA
GGGACCTGTCCAAGCTGTCACTGGGAGTCTCAGATGGAAGGACAAGTGATGGGGATCAGGCCCCAGAGCTTGC
TGTCCCCTGAGACCCCATCCTGGGGAGAGGGGAGGACTCCTCTCCCTACGCCAGCCAAGTTTCGTATAGCCAGT
TCCAGCTGGGAGAGACAGTGGGCGTCTCATCCTCAGTGAGAACACCAGAGAACC CGGGCCGGGAGAAGGTGG
TTCTTCAAGCCGAGAGGCACGAGCTGGGGACAGTTCTGCCTCTGTGACTGCTGCTTTGCATGAAAACCTATTTGA
TGTATATTGGGGAAATAATGAGAACTTTATTTAATTTTTTTAAGAAAAAGGGAAAAAACAGAAATAAAACAAAA
AGCCGCCCTGTTAATCAAATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 561

ACTGAATTCAACAATTATTTATTGAGTGTCTATTATGTGCTAGATACTGAGACACATCAGAGAACAAAACCAAAA
GCCCTGCCCTCGTCGGGCTTACAGTCTAGCACTTACTGCCAGTTAACCTGGAGGCTACCTGGAACCCGGGCAAG
TCACCGCACCTCTGTGCCTCGGTCCTCAGCTGCCTAATGGGAGAATAAGCAGACCTGGCTCAGACATGAATCATG
TGCTTGGTGTACTGCAGATGCCAAACTGCATCCCCATAACCCACCACCCAGACAGTAGATAGGGCTGGAAGTTGA
TTTTTAATGATCAAGTACAATGGAGGGAGGGCAGAGGGGCTAAGCCTAGCTGTCTGGGGTGCTGTGGTGGTGGTG
GGCTGGCTACACAAACTGTTGCTGCTGCTGCTGCTTCTTGGTGGCTGCCTTGCTGGCGAGGTCCTTGGCCTTCTC
TGTAGCTGCCAGTGCTGTCTCCTTTGCCTTCTCCTTGGCTTCCTTGGCTGTCTCAACAAGTGTTTTGAAGGGGC
CTCGCCTTGCAGCTTTGCCAAGATATATTCAAACCCCTTCATAGTCTTGGTCACATTGCTTTTGAACCAGGCAAG
ACCAAATTCCTGGACAGCTCTGGAGACACCAAATAAGCTAGAGGAGACCCAGGCTTCCCGGCGGATTCGGTCCG
GCCACTGTTGTCAGAGTTCACACAGTAAACACATCGTTCCTCCACCACC

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FIGURE 562

TTTCGGCCGGAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGGCACCCGAT
ATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTG
ATATTGTAGACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAA
GAGTCTACAATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGA
GAATTAATGTGCGTATTGAGCACATTAAGCATTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATG
ATCCTCCACCCAGAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATG
AATTCATGGCATAATAGGTGTT

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FIGURE 563

MTNTKGKRRGTQYMF SRPFRKHGVVALATYMQIYKKGDIVDIKGMGTIVQKGMPHKCYHGKTGRVYNVPQHAVGIV
VNTQVKGKILAKRINVRIEHIKHSKS

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FIGURE 564

ATGAAGCTCTTATCTTTGGTGGCTGTGGTCGGGTGTTTGCTGGTGCCCCAGCTGAAGCCAACAAGAGTTCTGAA
GATATCCGGTGCAAATGCATCTGTCCACCTTATAGAAACATCAGTGGGCACATTTACAACCAGAATGTATCCCAG
AAGGACTGCAACTGCCTGCACGTGGTGGAGCCCATGCCAGTGCCTGGCCATGACGTGGAGGCCTACTGCCTGCTG
TGCAGTGCAGGTACGAGGAGCGCAGCACCACCACCATCAAGGTCATCATTGTCATCTACCTGTCCGTGGTGGGT
GCCCTGTTGCTCTACATGGCCTTCCTGATGCTGGTGGACCCTCTGATCCGAAAGCCGGATGCATATACTGAGCAA
CTGCACAATGAGGAGGAGAATGAGGATGCTCGCTCTATGGCAGCAGCTGCTGCATCCCTCGGGGGACCCCGAGCA
AACACAGTCCTGGAGCGTGTGGAAGGTGCCCAGCAGCGGTGGAAGCTGCAGGTGCAGGAGCAGCGGAAGACAGTC
TTCGATCGGCACAAGATGCTCAGCTAG

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FIGURE 565

MKLLSLVAVVGCLLVPPAEANKSSEDIRCKCICPPYRNISGHIYNQNVSQKDCNCLHVVEPMPVPGHDVEAYCLL
CECRYEERSTTTIKVIVIVYLSVVGALLLYMAFLMLVDPLIRKPDAYTEQLHNEEENEDARSMAAAAASLGGPRA
NTVLERVEGAQQRWKLQVQEQRKTVFDRHKMLS

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FIGURE 566

ACCTGCACTGACTTTTTTCTCCTTTTGGAGGGAGAGCAGAGACCATGTCTGACATAGAAGAGGTGGTGGAAGAGT
ACGAGGAGGAGGAGCAGGAAGAAGCAGCTGTTGAAGAGCAGGAGGAGGCAGCGGAAGAGGATGCTGAAGCAGAGG
CTGAGACCGAGGAGACCAGGGCAGAAGAAGATGAAGAAGAAGAGGAAGCAAAGGAGGCTGAAGATGGCCCAATGG
AGGAGTCCAAACCAAAGCCCAGGTCGTTTCATGCCCCAACTTGGTGCCTCCCAAGATCCCCGATGGAGAGAGAGTGG
ACTTTGATGACATCCACCGGAAGCGCATGGAGAAGGACCTGAATGAGTTGCAGGCGCTGATCGAGGCTCACTTTG
AGAACAGGAAGAAAGAGGAGGAGGAGCTCGTTTTCTCTCAAAGACAGGATCGAGAGACGTCGGGCAGAGCGGGCCG
AGCAGCAGCGCATCCGGAATGAGCGGGAGAAGGAGCGGCAGAACCGCCTGGCTGAAGAGAGGGCTCGACGAGAGG
AGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCCGGAAGAAGAAGGCTTTGTCCAACATGATGCATTTTGGGG
GTTACATCCAGAAGXXXXXXXXXXACAGAGCGGAAAAGTGGGAAGAGGCAGACTGAGCGGGAAGAAGAAGAAGA
TTCTGGCTGAGAGGAGGAAGGTGCTGGCCATTGACCACCTGAATGAAGATCAGCTGAGGGAGAAGGCCAAGGAGC
TGTGGCAGAGCATCTATAACTTGGAGGCAGAGAAGTTCGACCTGCAGGAGAAGTTCAAGCAGCAGAAATATGAGA
TCAATGTTCTCCGAAACAGGATCAACGATAACCAGAAAGTCTCCAAGACCCGCGGGAAGGCTAAAGTCACCGGGC
GCTGGAATAGAGCCTGGCCTCCTTCACCAAAGATCTGCTCCTCGCTCGCACCTGCCTCCGGCCTGCACTCCCCC
AGTTCCCGGGCCCTCCTGGGCACCCAGGCAGCTCCTGTTTGGAAATGGGGAGCTGGCCTAGGTGGGAGCCACCA
CTCCTGCCTGCCCCACACCCACTCCACACCAGTAATAAAAAGCCACCACACACTG

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FIGURE 567

CCAGCCTTGCCCGGCAGAGGACTCTGGAGGATGAGGAGGAACAGGAGCGCGCGAXGGCGGCGGCACCGCAACCTG
AGCTCCACCACGGACGATGAGGCTCCAGGCTCAGCAGAATGGAGACCGGCAGCCTCTGCTTCTGAGAGACTACC
GAGCGTGGAAGAAGCAGAGGTGCCCAAGCCACTGCCCCAGCCTCCAAAGATGAGGACGAGGACATCCAGAGCAT
CCTCAGAACACGGCAGGAGCGGAGGCAGAGGCGGCAGGTGGTGGAGGCTGCACAGGCCCCATCCAGGAGAGGCT
GGAGGCAGAGGAGGGGAGGAACAGCTTGAGCCCTGTGCAGGCCACACAGAAACCCCTAGTCTCCAAGAAGGAACT
GGAAATCCCACCTCGCCGGAGACTGAGTCGGGAACAGCGGGGCCCTGCGCTGGAGGAGGAGAGCTTGGTGGGCA
GGGAGCCAGAAGAGAGGAAGAAAGGGGTTCCAGAAAAGTCCCCAGTCTTGAGAAAATCCTCCATGCCAAAGAAGA
CGGCACCTGAAAAGAGCCTGGTCTCCGATAAAAACCTCCATCTCTGAGAAGGTGCTGGCCTCAGAGAAGACATCTC
TATCAGAGAAGATAGCAGTGTGACAGAAAAGAAACAGCTCAGAGAAGAAGTCTGTTCTAGAAAAAACAGTGTCT
CTGAGAAGTCGCTGGCCCCAGGGATGGCACTGGGCTCAGGAAGGAGGCTGGTGTCTGAGAAAGCTTCCATCTTTG
AGAAGGCACTGGCCTCAGAGAAGAGCCCCAAGTGCAGATGCTAAGCCGGCCCCAAGAGGCCACAGCCTCAGAGCA
GCCCTGGCGCAGGAGCGCCAGCCTCTGGGGGAAGCCAGCCACCACCAAGGAGCAGAGAGGAAGGGCCCTCCC
TGGGAAGAACCTGCCCTCTTTGGCAGAGCAGGGGGCTTCAGACCCTCCGACTGTGGCCTCCCGCCTCCCACCCGT
CACACTCCAGGTGAAAATCCCCAGCAAGGAGGAAGAGGCAGATATGTCCTCACCCACACAGCGAACCTACAGCAG
CTCCCTCAAACGCTCCAGCCCCAGGACCATCTCCTTTTCGGATGAAAACCAAGAAAGAAAACCTCGGAAACAACCCCT
AACTCGCAGTGCCAGCATGAAGCTCCCAGACAACACAGTGAAGTTGGGAGAGAAGCTGGAGAGATAACACACGGC
CATACGGAGATCAGAATCTGTCAAGTCTCGGGGTCTGCCTTGCACTGAGTTATTTCGTGGCTCCTGTGGGTGTAGC
CAGCAAGCGCCACCTCTTTGAGAAGGAACTGGCGGGCCAGAGCCGAGCAGAACCAGCCTCCAGCCGGAAGGAGAA
CTTGAGGCTCTCAGGGGTGTGACATCAAGGCTCAACCTGTGGATCAGCAGGACCCAGGAATCTGGAGATCAGGA
CCCCCAGGAGGCACAGAAAGCATCATCTGCAACCGAGAGGACTCAGTGGGGACAGAAATCTGACTCCTCGCTGGA
CGCTGAGGTGTGACAAGCCCCGCCAAGACAGACCTGCAAGTCTTCGTCTCAAGGGACCTCCCTCATGCCAGGCCC
CTGCCCTCTCACAGCAGCACCTTTCTCTCATTGTCCCTGTTCCCTTTTTGCTGTGGATCTGTTTGGCCAGGGT
CCCTGGGGTTCAGGAATATTTGCAAGACTCAGCCAGCTCCTTCCCAGCCCAGCCTCTTGGGGCTGGGACTTTCTCA
CCCTGCGGCAGGCACAACAGATGCTGGGACCCAGTCTCTGCCCAGGTCACAGCACAAGTGCACATCAGCACTATG
GGGCCTATGTCCTGCCAGAGACCTCTGCTCCTTCTGCTCACATCCACAGTCAGGGCACGGCGCCCCCTCAAGAA
CTCCAGAGTCACCTGTCTCATCGGCTCCCAGCAAGTGCCTCTTTGTCTATGATGTCCCCCTTCTCTGAGGCCTGG
ACCCACCCATCTTTGTCCCTGGGGCCTGCTCCCAGCCACTGAGGCCCGCTCTGGCCAGGGGAGAAGGAGCTGCCG
TGCGTCTTCCCTGTGCCCCGTCTCCCTGCTTGGTTCTCCCCCTCCCTTCCCTGGCCGGCTGCCATGGCCAGGAGCT
AAGTGCCTTTTTGTGTGCAACCACTTACCCTTTCTCTGAAAAACCTGTCTCAGGAAGGATCTGATAAACTCATT
TACTCTCAGGTGTAAGAGACTGATGAGACCTTAGAAGCGAATTCCTCTCTGGAGGCCTTGCTTTCTAGCAGAGTC
ACCTGAAGTGTGTGAGGAGGATCATATTTTCTCATCCCCCTCTTCTCACATTAAGGTGGTGGCTTGCCACTC
AGCAGTCCCTAGCTTGGTGAAGTGGCACTGCCACATACAGGGCCAGGCCTACCCTCCTTCCCCACAAGCCCCCTCC
AACCCCCACCCCATGCTCTGGACCTCATGGCTCCTATGAGCTTGGAGCATGGTGAACCATCAGAGAATCTAGAA
CCAACCAAGCTAGGAACATCAGCCTGGTGCCTGTTAACCCTTAAAGCTGTGGTTTACAACCTTTTCAAAAATTTA
AATCATTAG

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FIGURE 568

ATTCAAGGCCTGGGGGAGCTGCGGTTCCGAGAAGCGGCAGACGGCAGCCAGAAGGCTTGGGCTGTTGAGTAAGCA
GCCCCCTCTCAGTCCCGGCCCTCCCCGCCCCGCGCCCTGCGCCTCCAGTGAGTGACTGAGCCCCGCTGCGGCCC
CGCCCCCGGGGCCCTGCCGGAGCTGGTGCGCGGCGCGGAGGGGAGGGCCGGCCAGGGTAGGAATGCGCTGCGGGC
GGGCGGCGCAGGAGGCGAGCGGCGGAACATGTAAGGGCACATCCCGCAGAGTGCCGCCAGCGCGCAGACAGAGC
CCAGGGGAGCAAGAGAACGGGCGGGCGGTGGGGCTCACGGCCTAGGGAGGCGCGGAGGCATCTGGCAGAGGGCGG
TCGGGCTGGGCCAGCTGGGGTAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGGCGGTGGGCGCGGAGCGCGCTG
GGGCGACCGACACCACTCACCGGCAGCCGGGTGCTGAGGGCCGCGGTGTGGGTGCGCGGAGCAGTCAGGGCGCA
GGTGGGCAGCGCGCACGGCCTGCCAGCCCGGGGCGCCAGAATCCTGCGCTGCGGGGCCGAGAGGGGCGCCGCGCC
CGCCGCAGCCTGGAGCTTTCCGCGAACCTCGGGGCGCCATGACGGCGGCGGCGACGGCTACCGTGCTCAAGGAG
GGCGTGCTGGAGAAGCGCAGCGGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCTCACCGAACGCGGG
CTGCAGCTCTTCGAGGCCAAGGGCACGGGCGGCCGCCCCAAGGAGCTCAGCTTCGCCCCGATCAAGGCCGTGGAG
TGCGTGAGAGCACCGGGCGCCACATCTACTTCACGCTGGTGACCGAAGGGGGCGGCGAGATCGACTTCCGCTGC
CCCCTGGAAGATCCCGGCTGGAACGCCCAGATCACCTTAGGCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAG
ACAGTGCGGGCCCGGCAGAGCCTCGGGACCGGGACCCTCGTGTCCTAAACCACCGGGCGCACCATCTTTCCTTCA
TGCTACCCACCACCTCAGTGCTGAGGTCAAGGCAGCTTCGTTGTTCCCTCTGGCTTGTTGGGGGCACGGCTGTGCT
CCATGTGGCAAGGTGGAAGGAATGGACGAGCCCTGGGAGGAGGGCAGAAGGCTACGCAGGGCTGAGGATGAAGAT
GCAGCCCCCTGGATGGTCCCAGACTCTCAGGACATGCCCAGCTCAGGGGCTTCGAGCCACAGGCCTGGCCTCATAT
GGCATGAGGGGGAGCTGGCATAGGAGCCCCCTCCCTGCTGTGGTCTGCCCCCTGTCCTGCAGACTGCTCTTAGC
CCCCTGGCTTTGTGCCAGGCCTGGAGGAGGGCAGTCCCCCATGGGGTGCCGAGCCAACGCCTCAGGAATCAGGAG
GCCAGCCTGGTACCAAAAAGGAGTACCCAGGGCCTGGTACCCAGGCCCCACTCCAGAATGGCCTCTGGACTCACCTT
GAGAAGGGGGAGCTGCTGGGCCTAAAGCCCACTCCTGGGGGTCTCCTGCTGCTTAGGTCTTTTGGGACCCCCAC
CCATCCAGGCCCTTTCTTTGCACACTTCTTCCCCCACCTCTACGCATCTTCCCCCACTGCGGTGTTGCGCCTGA
AGGTGGTGGGGGTGAGGGGGGGTTTGGCCATTAGCATTTTCATGTCTTTCCCCAA

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FIGURE 569

ATGTCGGCGCGCGCGGCGGAGCTGGTGCGGCCTCCGGGCTGCCGGGTCCAGTGGCACAAGGATTAAAGGAAGCGTTA
GTGGATACGCTCACC GGAGTCCCTATCCCCAGTACAGGAGGTGCGGGCGGCTGCTGAAGAACAGATTAAGGTGCTG
GAGGTGACGGAGGAATTTGGTGTTCACTTGGCAGAACTGACTGTAGATCCCCAGGGGGCACTGGCAATCCGTCAG
CTGGCATCAGTCATCTTGAACAATATGTGGAGACTCACTGGTGTGCCCAATCAGAGAAATTTAGGCCTCCTGAA
ACTACAGAAAGGGCAAAAATTTGTTATCCGGGAGCTATTGCCTAATGGGTTGAGAGAATCGATAAGCAAAGTGCGC
TCCAGTGTGGCCTATGCAGTGTAGCCATTGCCCACTGGGACTGGCCTGAAGCTTGGCCCCAACTCTTCAACCTG
CTCATGGAGATGTTGGTGAGCGGAGACTTAAATGCCGTCCATGGAGCCATGCGTGTGCTGACAGAATTCACCTG
GAAGTTACAGACACACAGATGCCACTTGTGCTCCTGTCACTTCTCCAGAGATGTATAAGATCTTCACCATGGCT
GAGGTGTATGGTATTCGAACCCGTTCCCGAGCCGTGGAGATTTTTTACCCTTGTGCCCATATGATCTGTAACATG
GAGGAGCTGGAAGGGGTGCAGCCAAAGTCCTGATCTTTCCCGTGGTACAGCAGTTTACAGAGGCCCTTTGTTTACG
GCCCTCCAGATACCAGATGGCCCCACATCTGACAGTGGGTTTAAAGATGGAGGTCTTAAAGGCAGTGACAGCCCTA
GTGAAAACTTCCCAAAGCACATGGTGTCTCTCCATGCAGCAGATTCTGCCTATTGTTTGAACACCCTAACCGAG
AGTGCAGCTTTTTATGTGAGGACAGAAGTAAATTACACAGAAGAAGTAGAAGATCCTGTGGATTCTGATGGTGAA
GTCTTGGGCTTTGAAAATCTCGTCTTTAGCATTTTTTGAATTTGTCCATGCTCTACTAGAAAATAGCAAATTCAAA
AGCACTGTTAAGAAAGCCTTGCCTGAATTGATTTATTATATTATCCTGTACATGCAAATCACTGAGGAGCAGATT
AAAGTATGGACAGCCAACCCCCAACAAATTTGTAGAAGATGAAGATGATGATACATTCTCCTATACTGTTAGAATA
GCAGCTCAAGACTTGTGTGCTGGCTGTGGCCACAGATTTCCAGAATGAAAGTGACAGAGCCCTGGCTGCTGCAGCC
ACTCGACATTTACAAGAAGCTGAGCAAACCAAAAACAGTGGCACTGAGCACTGGTGGAAGATCCATGAGGCATGC
ATGCTTGCCCTAGGCTCAGTGAAGGCCATCATCACTGACAGTGTGAAAAATGGCAGGATTTCATTTTGACATGCAT
GGGTTCTTGACCAATGTCATCCTTGACAGACCTCAACCTCTCAGTGTCTCTCTTTCTCTTGGGCCGGGCACTTTGG
GCTGCCAGTCGGTTCACTGTGTGCTATGTCCCTGAACTGATCCAGCAGTTCTTACAGGCAACAGTTAGTGGTCTT
CACGAGACACAGCCCCCATCAGTTCGAATTTCTGCAGTGAGAGCCATCTGGGGTTATTGTGACCAACTGAAAGTC
TCAGAGAGTACCCACGTGCTCCAGCCCTTCTCCCCAGCATCCTTGATGGCTTAATTCACTAGCAGCCAGTTT
AGCTCAGAGGTCTCAACCTGGTGATGGAGACCCTGTGCATCGTTTGTACAGTAGACCCCGAATTCACAGCAAGC
ATGGAAGCAAAAATCTGCCCTTACCATCGCCATTTTCTTAAAGTACAGTAATGATCCCGTCGTCGCCTCACTG
GCTCAGGACATCTTCAAGGAGCTGTCCCAGATTGAAGCCTGTGAGGGCCCAATGCAAATGAGGCTGATTCCCACT
CTGGTCAGCATAATGCAGGCCCCAGCAGACAAGATTCTGCAGGGCTTTGTGCGACAGCCATTGATATCTTGACA
ACAGTAGTACGAAATACAAAGCCTCCCTTTCCAGCTTCTCATCTGCCAAGCTTTCCCTGCTGTGGCACAGTGT
ACCCTTCACACAGATGACAATGCCACCATGCAGAAATGGCGGAGAGTGCTTGGGGCCTATGTGTGATGACCCCTG
GAACAAGTAGCCCACTGGCATGATGAGCAGGGCCACAATGGACTGTGGTATGTGATGCAAGTGGTGAGCCAGCTC
CTGGACCCCCCGACCTCAGAGTTCAGTGCAGGCTTTGTGGGGCCGCTTGTTCACCCTCATCTCCAAGGCAGGG
CGGGAACCTCGGGGAGAATCTAGACCAGATTCTTCGTGCCATCCTCAGTAAGATGCAGCAGGCAGAGACGCTCAGT
GTCATGCAGTCCCTGATCATGGTGTTCGCTCATCTGGTGCACACTCAGCTAGAACCCTCTCTTGGAGTTCCTGTGT
AGCCTCCCAGGACCTACTGGCAAACCTGCTCTAGAGTTTGTGATGGCTGAGTGGACAAGCCGACAGCACCTGTTT
TATGGACAGTATGAAGGCAAAGTCAGCTCTGTGGCACTCTGTAAAGCTGCTCCAGCATGGCATCAATGCAGATGAC
AAACGGCTACAGGATATCCGTGTGAAGGGAGAGGAGATCTACAGCATGGATGAGGGCATCCGCACCCGCTCTAAG
TCAGCCAAAACCCAGAACGCTGGACAAACATTCTTTGCTGGTCAAGATCCTTAAAGCTGATCATCAACGAGCTC
TCCAACGTCATGGAGGCTAATGCCGCTCGCCAGGCCACTCCTGCAGAGTGGAGTCAAGATGACTCCAATGATATG
TGGGAGGACCAGGAGGAGGAAGAGGAGGAGGAGGAGGATGGTTTAGCTGGCCAACCTTTATCTGACATTCTTGCT
ACAAGTAAATATGAGGAGGATTACTACGAGGATGATGAGGAAGATGACCCTGATGCCCTGAAGGATCCTCTCTAT
CAGATTGATCTGCAGGCATATCTCACAGATTTCTCTGCCAGTTTGTCTCAGCAGCCCTGCTACATAATGTTTTCA
GGCCACCTTAATGACAATGAGAGGCGAGTTCTACAGACCATCGGCATCTAA

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FIGURE 570

MAAAAAAGAASGLPGPVAQGLKEALVDTLTGILSPVQEVRAAAEEQIKVLEVTEEFVHHLAELTVDPQGALAIRO
LASVILKQYVETHWCAQSEKFRPPETTERAKIVIRELLPNGLRESISKVRSSVAYAVSAIAHWDWPEAWPQLFNL
LMEMLVSGDLNAVHGAMRVLTEFTREVTDQTQMPVLVAPVILPEMYKIFTMAEVYGIRTRSRAVEIFTTCAHMICNM
EELEKGAAKVLIFPVVQQFTEAFVQALQIPDGPTSDSGFKMEVLKAVTALVKNFPKHMVSSMQQILPIVWNTLTE
SAAFYVRTEVNYTEEVDPVDSGGEVLGFENLVFSIFEVHALLENSKFKSTVKKALPELIYYIILYMQITEEQI
KVWTANPQQFVEDEDDDTFSYTVRIAAQDLLLLAVATDFQNESAAAALAAAATRLQEAQTKNSGTEHWWKIHEAC
MLALGSVKAIITDSVKNRIHFDMHGFLTNNVILADLNLSVSPFLLGRALWAASRFTVAMSPELIQQFLQATVSGL
HETQPPSVRISAVRAIWGYCDQLKVSESTHVLPFLPSILDGLIHLAAQFSSEVLNLVMTLCIVCTVDPEFTAS
MESKICPFTTIAIFLKYSNDPVVASLAQDIFKELSQIEACQGPQMRLIPTLVSIMQAPADKIPAGLCATAIDILT
TVVRNTKPPLSQLLICQAFPAVAQCTLHTDDNATMQNGGECLRAYVSVTLEQVAQWHDEQGHNGLWYVMQVVSQ
LDPRTSEFTAAAFVGRVLVSTLISKAGRELGENLDQILRAILSKMQQAETLSVMQSLIMVFAHLVHTQLEPLLEFLC
SLPGPTGKPALEFVMAEWTSRQHLYGYEGKVSSVALCKLLQHGINADDKRLQDIRVKGEEIYSMDEGIRTRSK
SAKNPERWTNIPLLVKILKLIINELSNVMEANAARQATPAEWSQDDSNMDWEDQEEEEEEEDGLAGQLLSDILA
TSKYEEDYEDDEEDDPDALKDPLYQIDLQAYLTDFLCQFAQQPCYIMFSGHLNDNERRVLQTIGI

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FIGURE 571

AGTCAAGATGGAGGAGTACGCGGAGAGCCTTGCCCATGGCGAATTGTGGATGACTGTGGTGGGGCCTTTACGAT
GGGTACCATTTGGTGGTGGTATCTTTCAAGCAATCAAAGGTTTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACT
ACGAGGGAGTTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGGAGGGCTGTT
TTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAAGGAAGATCCCTGGAATCCATCACAAGTGGTGCCTT
AACGGGAGCCATACTGGCAGCAAGAAATGGACCAGTGGCCATGGTTGGGTCAGCCGCAATGGGTGGCATTCTCCT
AGCTTTAATTGAAGGAGCTGGTATCTTGTGACAAGATTTGCCTCTGCACAGTTTCCCAATGGTCCCTCAGTTTGC
AGAAGACCCCTCCCAGTTGCCTTCAACTCAGTTACCTTCCTCACCTTTTGGAGACTATCGACAATATCAGTAGGA
CTTCTTTCCCTAGGATTTCTTTAACAGAACGAGTTGTGGTTCGAGAAGGATTTTCAAGATCAAGTTACAGTCTGT
TTTTAAACCATAGGTGGGACAGCTATGGCCAATAGGCTATAAAGAGACATTTAGCACTTTTTTCTATTTAAAGG
AACAAGCGGGGAAGGGTGCTAAAAGATAATACGTTTATTTATTACACTTGAATTGCATTTGTGATCAAAATAAA
TGTTTAAATCGCTAAAGGAAAATACAGTAAGTGCCTTGAAGATGAAGGACCAAAAGGCCAAAAAACAGTGAAATA
TGATCATCATCTCTTGCGGACTTCTCTGCCCTGGTTTTGTGTGTTCTGTTATTCAAACAATAAAAAGCTGGTGGAA
CTTACTCTTTCTTTAAGATAAGTTGTAGACTTCGATGTTTCATGCTCATGTACTTCAAATAATGCATGTTTTAT
AGTTAGTCCCTCATCACTTGAAGTGACTTCTGAGAATTATGCAGAGTCAACATGGATCATTTCACAGTGAGATGC
TTTATGGATTGAAGGATATGGTAAAATGTTTATAGTTTACTTTGAAAGTAAAATATACTATGTCTTGGTTTTGAG
GATATTGGATACAAAACCTCTCTTCCTTTAGGGCTACTGAGTCTTGATTCTGATCATCAGAAATTTACCAGAAA
CAACTTGCTTCCAATATACCCAATTCTATATGAAGAATTCATGGAGAGTGTACTGGCACTGGAAGAGTTTAGTGT
TTCTTGTATGCTTGAAAAATAAGTATGTACTGTTTTGAATGTGTTCCAAGTCCCTCTGCATAAACGATGTATTTG
GGGTCTGGTTGGGCCTGGAAAAATGGATGAGCACTTCAGAACAGGTCATTTTCTGATATTGGAAGTGACATGTGG
CCCTATAGGAGGCATGATGTTAGTTAATTACACATTTGCCTACATCTGTGGGAAATGGAGAACAAAGCCATGTGG
GTACTGTAAACACACGTTTATCTTTTGGCCCAATGCCATACATATGGTAGGCATTTAATTACTGATTGTGTTTGG
ATAATTTGGGAATTTTCGACTGTGGTAAAATATACATAAAATAATACTTATTAAAAA

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FIGURE 572

MEEYAREPCPWRIVDDCGGAFTMGTIGGGIFQAIKGFRNSPVGVNHLRGSLTAIKTRAPQLGGSFAVWGGLFSM
IDCSMVQVRGKEDPWNSITSGALTGAILAARNGPVAMVGSAAAMGILLALIEGAGILLTRFASAQFPNGPQFAED
PSQLPSTQLPSSPFGDYRQYQ

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FIGURE 573

GGCC**ATG**GCGAGCGGCGAGCATTCCCCGGCAGCGGCGCGGCCCGGCGGCCGCTGCACTCCGCGCAGGCTGTGGA
CGTGGCCTCGGCCTCCAACCTCCGGGGCCTTTGAGCTGCTGCACTTGACCTGGACCTGCGGGCTGAGTTCGGGCC
TCCAGGGCCCCGGCGCAGGGAGCCGGGGGCTGAGCGGCACCGCGGTCTGGACCTGCGCTGCCTGGAGCCCCAGGG
CGCCGCCGAGCTGCGGCTGGACTCGCACCCGTGCCTGGAGGTGACGGCGGCGGCGCTGCGGCGGGAGCGGCCCGG
CTCGGAGGAGCCGCCTGCGGAGCCCGTGAGCTTCTACACGCAGCCCTTCTCGCACTATGGCCAGGCCCTGTGCGT
GTCCTTCCCGCAGCCCTGCCGCGCCGCCGAGCGCCTCCAGGTGCTGCTCACCTACCGCGTCGGGGAGGGACCCGG
GGTTTGCTGGTTGGCTCCCGAGCAGACAGCAGGAAAGAAGAAGCCCTTCGTGTACACCCAGGGCCAGGCTGTCTT
AAACCGGGCCTTCTTCCCTTGCTTCGACACGCCTGCTGTTAAATACAAGTATTTCAGCTCTTATTGAGGTCCCAGA
TGGCTTTCACAGCTGTGATGAGTGCTAGCACCTGGGAGAAGAGAGGTCCAAATAAGTTCTTCTTCCAGATGTGTCA
GCCCATCCCCCTCCTATCTGATAGCTTTGGCCATCGGAGATCTGGTTTTCGGCTGAAGTTGGACCCAGGAGCCGGGT
GTGGGCTGAGCCCTGCCTGATTGATGCTGCCAAGGAGGAGTACAACGGGGTGATAGAAGAATTTTTGGCAACAGG
AGAGAAGCTTTTTGGACCTTATGTTTGGGGAAGGTATGACTTGCTCTTCATGCCACCGTCTTTCCATTTGGAGG
AATGGAGAACCCTTGCTCTGACCTTTGTACCCCTGCCTGCTAGCTGGGGACCGCTCCTTGGCAGATGTATCAT
CCATGAGATCTCCACAGTTGGTTTGGGAACCTGGTCACCAACGCCAACTGGGGTGAATTCTGGCTCAATGAAGG
TTTACCATGTACGCCAGAGGAGGATCTCCACCATCCTCTTTGGCGCTGCGTACACCTGCTTGGAGGCTGCAAC
GGGGCGGGCTCTGCTGCGTCAGCACATGGACATCACTGGAGAGGAAAACCCACTCAACAAGCTCCGCGTGAAGAT
TGAACCAGGCGTTGACCCGGACGACACCTATAATGAGACCCCTACGAGAAAGGTTTCTGCTTTGTTTCATACCT
GGCCCACTTGGTGGGTGATCAGGATCAGTTTGACAGTTTTCTCAAGGCCTATGTGCATGAATTCAAATTCCGAAG
CATCTTAGCCGATGACTTTCTGGACTTCTACTTGGAATATTTCCCTGAGCTTAAGAAAAAGAGAGTGGATATCAT
TCCAGGTTTTGAGTTTGATCGATGGCTGAATACCCCGGCTGGCCCCCGTACCTCCCTGATCTCTCCCCTGGGGA
CTCACTCATGAAGCCTGCTGAAGAGCTAGCCCAACTGTGGGCAGCCGAGGAGCTGGACATGAAGGCCATTGAAGC
CGTGGCCATCTCTCCCTGGAAGACCTACCAGCTGGTCTACTTCCTGGATAAGATCCTCCAGAAATCCCCTCTCCC
TCCTGGGAATGTGAAAAAAGCTTGGAGACACATACCCAAGTATCTCAAATGCCCGGAATGCAGAGCTCCGGCTGCG
ATGGGGCCAAATCGTCCTTAAGAACGACCACCAGGAAGATTTCTGGAAAGTGAAGGAGTTCCTGCATAACCAGGG
GAAGCAGAAGTATACACTTCCGCTGTACCACGCAATGATGGGTGGCAGTGAGGTGGCCCAGACCCTCGCCAAGGA
GACTTTTGCATCCACCGCTCCAGCTCCACAGCAATGTTGTCAACTATGTCCAGCAGATCGTGGCACCCAAGGG
CAGT**TAG**AGGCTCGTGTGCATGGCCCTGCCTCTTCAGGCTCTCCAGGCTTTCAGAATAATTGTTTGTTCCTCAA
TTCTGTTCCTGATCAACTTCTGGAGTTTATATCCCTCAGGATAATCTATTCTCTAGCTTAGGTATCTGTGA
CTCTTGGGCTCTGCTCTGGTGGGAACCTACTTCTCTATAGCCCACTGAGCCCCGAGACAGAGAACCTGCCACA
GCTCTCCCCGCTACAGGCTGCAGGCACTGCAGGGCAGCGGTATTCTCTCCCCACCTAAGTCTCTGGGAAGAAG
TGGAGAGGACTGATGCTCTTCTTTTTTCTCTTTCTGTCTTTTCTTGCTGATTTTATGCAAAGGGCTGGCATT
TGATTGTCTTTTTTTCAGGTTTAATCCTTATTTTAATAAAGTTTTCAAGCAAAAATT

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FIGURE 574

MASGEHSPGSGAARRPLHSAQAVDVASASNFRAFELHLHLDLRAEFGPPGPGAGSRGLSGTAVLDLRCLEPEGA
AELRLDSHPCLEVTAALRRERPGSEEPFAEPVSFYTQPF SHYQALCVSFPQPCRAAERLQVLLTYRVGEGPGV
CWLAEQTAGKKKPFVYTQQAVALNRAFFPCFDTPAVKYKYSALIEVPDGF TAVMSASTWEKRGPNKFFFQMCQP
IPSYLIALAIGDLVSAEVGPRSRVWAEFCLIDAAKEEYNGVIEEFLATGEKLF GPYVWGRYDLLFMPPSFPGGM
ENPCLTFVTPCLLAGDRSLADVIIHEISHSWFGNLVTNANWGEFWLNEGFTMYAQRRISTILFGAAYTCLEAATG
RALLRQHMDITGEENPLNKL RVKIEPGVDPDDTYNETPYEKGFCFVSYLAHLVGDQDQFDSFLKAYVHEFKFRSI
LADDFLDFYLEYFPELKKKRVDIIPGFEFDRWLNTPGWPPYLPDLSPGDSL MKPAEELAQLWAAEELDMKAIEAV
AISPWKTYQLVYFLDKILQKSPLPPGNVKKLGDTYPSISNARNAELRLRWGQIVLKN DHQEDFWKVKEFLHNQ GK
QKYTLPLYHAMMGSEVAQTLAKETFASTASQLHSNVVNYVQQIVAPKGS

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FIGURE 575

AGGCTCTATTAGAGCCGGGTAGGGGAGCGCAGCGGCCAGATACCTCAGCGCTACCTGGCGGAACTGGATTCTC
TCCCGCCTGCCGGCCTGCCTGCCACAGCCGACTCCGCCACTCCGGTAGGATTCCCCGCCTGTCATTCCCTAGCC
CAGCTCTTGGGAAACTGCAGAGGGGTCCAGAGGATTTGCAGTTCTGAACCTGCACACTCCAGTCTAGGATCTCCG
AGCAAGAGCGTAGCCTCATGGCTGCAACCTGTGAGATTAGCAACATTTTGTAGCAACTACTTCAGTGCATGTACA
GCTCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTACTGACCCTGA
GCAACCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGA
CGCAGGTTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCAGCAT
GTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACC
AACTCCATGCCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGA
AGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCCTTTGCCAGGAGCTGC
TGGACGACGGTCAGCAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCCGGCAGCTCTG
ACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGG
ATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTTCGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGC
GGAAACGAGGGCCGGCCCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGGCAAGAAGAGCAAGCACGCGC
CCAGAGGCACCCACCTGTGGGAGTTTCATCCGGGACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGT
GGGAGAATCGGCATGAAGGCGTCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAGAAAA
AGAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGAACGGG
TGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACCTCAAGCGCTGGAAGGAGGAAGAGGTTCTCCAGAGTC
GGAAGTGAAGGTTGGAACATATACCCGGGACCAAACTCACGGACCACTCGAGGCCTGCAACCTTCTGGGAGGAC
AGGCAGGCCAGATGGCCCCTCCACTGGGGAATGCTCCCACTGTGCTGTGGAGAGAAGCTGATGTTTTGGTGTAT
TGTCAGCCATCGTCTGGGACTCGGAGACTATGGCCTCGCCTCCCCACCCTCCTCTTGAATTACAAGCCCTGGG
GTTTGAAGCTGACTTTATAGCTGCAAGTGTATCTCCTTTTATCTGGTGCCTCCTCAAACCCAGTCTCAGACACTA
AATGCAGACAACACCTTCTCCTGCAGACACCTGGACTGAGCCAAGGAGGCCTGGGGAGGCCCTAGGGGAGCACC
GTGATGGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTCTGGACTGGCGTTCACCTCCCTGCTCAGTGCTTGG
GCTCCACGGGCAGGGGTGAGAGCACTCCCTAATTTATGTGCTATATAAATATGTCAGATGTACATAGAGATCTAT
TTTTTCTAAACATTCCCTCCCCACTCCTCTCCACAGAGTGCTGGACTGTTCCAGGCCCTCCAGTGGGCTGAT
GCTGGGACCCTTAGGATGGGGCTCCAGCTCCTTTCTCCTGTGAATGGAGGCAGAGACCTCCAATAAAGTGCCTT
CTGGGCTTTTTCTAACCTTTGTCTTAGCTACCTGTGTACTGAAATTTGGGCCTTTGGATCGAATATGGTCAAGAG
GTTGGAGGGGAGGAAAATGAAGGTCTACCAGGCTGAGGGTGAGGGCAAAGGCTGACGAAGAGGGGAGTTACAGAT
TTCTGTAGCAGGTGTGGGCTTACAGACACATGGACTGGGCTGGGAGGCGAGCAAAGGAAGCAGCTGAGACTGTT
GGAGAACGCTTACAAGACTTCATGCAAGCAAGGACATGAACTCAGAACACTGAGGTGAGAAGCATCCTGCTGTCA
TGACACCGCTCGAGTGACCTTGACCTTGACCAAGTCTGTCTGTTTAGGACTGATTTTTCTATTAGGCTAGGGT
TTGGACCTGATGTTCTCAAGATGTCTAGAATTGCATGGCTGGCCTTGTGGAATAGATGGTTTTGCATTCCAGCCA
AGTGTGCTGTAACTGTATATCTGTAATATGAATCCCAGCTTTTGAGTCTGACAAAATCAGAGTTAGGATCTTGT
AAAGGA

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FIGURE 576

CGGGTACAGGGGGCCCAAGAGCTGGGCTGGCTGTCTCCTGCTCATCCAGCCATGCGGTGGCTGTGGCCCTGGCT
GTCTCTCTTGCTGTGATTTTGGCTGTGGGGCTAAGCAGGGTCTCTGGGGGTGCCCCCTGCACCTGGGCAGGCAC
AGAGCCGAGACCCAGGAGCAGCAGAGCCGATCCAAGAGGGGCACCGAGGATGAGGAGGCCAAGGGCGTGCAGCAG
TATGTGCCTGAGGAGTGGGCGGAGTACCCCGGGCCATTACCCCTGCTGGCCTGCAGCCAACCAAGCCCTTGGTG
GCCACCAGCCCTAACCCCGACAAGGATGGGGGCACCCAGACAGTGGGCAGGAAGTGGGGGCAATCTGACAGGG
GCACCAGGGCAGAGGCTACAGATCCAGAACCCCTGTATCCGGTGACCGAGAGCTCCTACAGTGCCTATGCCATC
ATGCTTCTGGCGCTGGTGGTGTGTGCGGTGGGCATTGTGGGCAACCTGTGCGGTCAATGTCATCGTGTGGCACAGC
TACTACCTGAAGAGCGCCTGGAATCCATCCTTGCCAGCCTGGCCCTCTGGGATTTTCTGGTCCTCTTTTTCTGC
CTCCCTATTGTATCTTCAACGAGATCACCAAGCAGAGGCTACTGGGTGACGTTTCTTGTCGTGCCGTGCCCTTC
ATGGAGGTCTCCTCTCTGGGAGTCACGACTTTCAGCCTCTGTGCCCTGGGCATTGACCGCTTCACGTGGCCACC
AGCACCCCTGCCCCAAGGTGAGGCCCATCGAGCGGTGCCAATCCATCCTGGCCAAGTTGGCTGTCATCTGGGTGGGC
TCCATGACGCTGGCTGTGCCTGAGCTCCTGCTGTGGCAGCTGGCACAGGAGCCTGCCCCACCATGGGCACCCTG
GACTCATGCATCATGAAACCCCTCAGCCAGCCTGCCCCAGTCCCTGTATTCACTGGTGATGACCTACCAGAACGCC
CGCATGTGGTGGTACTTTGGCTGCTACTTCTGCCTGCCCATCCTCTTCACAGTCACCTGCCAGCTGGTGACATGG
CGGGTGCGAGGCCCTCCAGGGAGGAAGTCAGAGTGCAGGGCCAGCAAGCACGAGCAGTGTGAGAGCCAGCTCAAC
AGCACCGTGGTGGGCTGACCGTGGTCTACGCCTTCTGCACCCTCCCAGAGAACGTCTGCAACATCGTGGTGGCC
TACCTCTCCACCGAGCTGACCCGCCAGACCCTGGACCTCCTGGGCCTCATCAACCAGTTCTCCACCTTCTTCAAG
GGCGCCATCACCCAGTGCTGCTCCTTTGCATCTGCAGGCCGCTGGGCCAGGCCTTCTGGACTGCTGCTGCTGC
TGCTGCTGTGAGGAGTGC GGCGGGGCTTCGGAGGCCTCTGCTGCCAATGGGTTCGGACAACAAGCTCAAGACCGAG
GTGTCCTCTTCCATCTACTTCCACAAGCCCAGGGAGTCAACCCCACTCCTGCCCCTGGGCACACCTTGCTTGAGGC
CCCAGTAGGGGTGGGGAGGGAGGGAGAGGCCGCCACCCCGCCGGTGTCTGCTGTTCTTTCCCATAGGTCTTGC
TTTGTGCTGTCTTGCTGTCTAGGGATGGACTTGGTTTCTTGTCAAGGTTTGGGAATCCG

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FIGURE 577

MRWLWPLAVSLAVILAVGLSRVSGGAPLHLGRHRAETQEQQSRSKRGTEDEEAKGVQQYVPEEWAHEYPRPIHPAG
LQPTKPLVATSPNPDKDGGTPDSGQELRGNLTGAPGQRLQIQNPVTESSYSAYAIMLLALVVFVAVGIVGNLS
VMCIVWHSYYLKSAWNLSILASLALWDFLVLFCLPIVIFNEITKQRLLDVSCRAVFFMEVSSLGVTTFSLCALG
IDRFHVATSTLPKVRPIERCQSILAKLAVIWVGSMTLAVPELLWQLAQEPAPTMGTLDSCIMKPSASLPESLYS
LVMTYQNARMWWYFGCYFCLPIELFTVTCQLVTWRVRGPPGRKSECRASKHEQCESQLNSTVVGLTVVYAFCTLPE
NVCNIVVAYLSTELTRQTLDLLGLINQFSTFFKGAITPVLLLCICRPLGQAFDCCCCCCECGGASEASAANG
SDNKLKTEVSSSIYFHKPRESFPLLPLGTPC

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FIGURE 578

GCGCGCAGCGCTGGTACCCCGTTGGTCCGCGCGTTGCTGCGTTGTGAGGGGTGTCAGCTCAGTGCATCCCAGGCA
GCTCTTAGTGTGGAGCAGTGAAGTGTGTGGTTCCTTCTACTTGGGGATCATGCAGAGAGCTTCACGTCTGAAG
AGAGAGCTGCACATGTTAGCCACAGAGCCACCCCGAGGCATCACATGTTGGCAAGATAAAGACCAAATGGATGAC
CTGCGAGCTCAAATATTAGGTGGAGCCAACACACCTTATGAGAAAGGTGTTTTTAAGCTAGAAGTTATCATTCCCT
GAGAGGTACCCATTGAACCTCCTCAGATCCGATTTCTCACTCCAATTTATCATCCAAACATTGATTCTGCTGGA
AGGATTTGCTGGATGTTCTCAAATTGCCACCAAAGGTGCTTGGAGACCATCCCTCAACATCGCAACTGTGTTG
ACCTCTATTAGCTGCTCATGTCAGAACCCAACCCTGATGACCCGCTCATGGCTGACATATCCTCAGAATTTAAA
TATAATAAGCCAGCCTTCCTCAAGAATGCCAGACAGTGGACAGAGAAGCATGCAAGACAGAAACAAAAGGCTGAT
GAGGAAGAGATGCTTGATAATCTACCAGAGGCTGGTGAAGTCCAGAGTACACAACCTCAACACAGAAAAGGAAGGCC
AGTCAGCTAGTAGGCATAGAAAAGAAATTTATCCTGATGTTTTAGGGGACTTGTCTTGGTTCATCTTAGTTAATG
TGTTCTTTGCCAAGGTGATCTAAGTTGCCTACCTTGAATTTTTTTTTAAATATATTGATGACATAATTTTGTG
TAGTTTATTTATCTTGTACATATGTAATTTGAAATCTTTTAAACCTGAAAAATAAATAGTCATTTAATGTTGAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 579

MQRASRLKRELHMLATEPPPGITCWQDKDQMDDLRAQILGGANTPYEKGVFKLEVIIPERYPFEPPQIRFLTPIY
HPNIDSAGRICLDVLKLPPKGAWRPSLNIATVLTSIQLLMSEPNPDDPLMADISSEFKYNKPAFLKNARQWTEKH
ARQKQKADEEEMLDNLPEAGDSRVHNSTQKRKASQLVGIEKKFHPDV

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FIGURE 580A

ATGCTGCAAATGCCGAAGTTAAATGAAATACCTCCGGGGAGGGCAGGCCGAGGGAGGCTCGGGGGGAGGGAAGA
TGGCCTGGACAAACAGGTCTGAAGCTGCGAGGCTGGAGTGGAGGGCGCAGGGGCAGGCGGGCGGCCAGAGCT
CCATGGGACAGCTGGGGAAGCTCCAGGCTACCTACACAACCTGGCCCAGGCTGGTCACGGTGTCCCCCTCCCTG
CTCTGTGCCCTCTCCTTCCAGAAATCCACCATGGAGAGTAAGGATGAGGTACGCGACACCGACAGTGGCATCATC
CTGCAGTCTGGCCCCGACAGCCCGGTCTCCCCAATGAAGGAGCTGACCCATGCAGTGCACAAGCAGCAGAGGGCC
CTGGAAGCGAGGCTGGAGGCCTGCCTGGAGGAGCTGAGGAGACTCTGCCTTCGGGAAGCGGAGCTGACGGGCACC
TTGCCAGCGGAGTATCCCCTCAAACCAGGGGAAAAGGCCCCCAAGGTTCCGCCGAGGATCGGAGCGGCTTACAAA
CTGGATGACTGGGCCTTGACAGAGAGGACCCCTAAGCAGCCTGGAGCGCCAGCTGGCCCTGCAGCTGCAGATC
ACAGAGGCAGCCCGTTCGGCTGTGCCTGGAGGAGAACCTCAGCAGGCAGGCTCGGCGGCAGCGGAAGCACTCCATG
CTGCAGGAGGAGAAGAAGCTGCAGGAGCTCCAGCGCTGCCTGGTTCGAGCGGCGGCGCAATAGCGAGCCACCTCCG
GCTGCTGCTCTCCCCCTGGGCGGAGAGCTCAGTGCCCTCTGATGACAGCTCCCTGTGAGATGGGCTCCTCCTGGAG
GAAGAGGAATCCCAAGTGCCAAAACCTCCTCCAGAGTCTCCAGCCCCACCTTCTCGGCCTCTCCACCCCAAACC
CTTGAGGGTCTGCAGCCAACAGGACCTGAGGCTGGGAGGCCAGAACGGGCTCCAGTCCAGAACAGCCCTGGGAAG
GAAACCAGCCTGGACCACCCCTATGAGAAGCCAGGAAGTCTTCTGAGCCCTGGAGCGAGTCCAGCAGCCAGCC
ACCACACCACAGGATGGGCCCAGTGCCTCCAGCCTGTGGCTTCTGGAGCCTGCCTCCTACCACGTGGTTCCCATC
CGTGGTGTTCCTGGCCAGTGGCAGGGCCGCACCAAGTGCCTCCAGCCACCCCTGAGATACAGGGGAGGAGGGGCCAG
TCGCAGTCTCTGAGGGTGGATTCTTCCGGGCGGGTCTGAGGGCCGAGGTGCGAGCGCCTTTCCCCGCCGCCGC
CCCACTCACTACACGGTGACAGTGCCAGATTCTTCTGCTTTCGCCGACCAAGCCCCCGCTGCCCCACGCCGCTGC
CACTCCTGCTCAGAAGACAGTGGCTCTGACGTCTCCAGCATCTCCACCCCACTTTCGCCGGGCAGCAGCAGCCCC
GACATCTCCTTTCTGCAGCCTCTCTCCCCTCCCAAGACCCATCGTCAACGCGGGGCTGGGTCCCAGCCGGCAGC
AGAGAGCTGGTCGCCCCACACCCCAAGCTACTGCTGCCGCTGGCTATTTCCCGGGCGGGGCGGTACGTGGTGGTG
GCTGAGAGCCCCCTGCCGCTGGCGAGTGGGAGCTGCGCCGCGCAGCCCCGGGGCCCTGCTTACGAGGAGGAGGGC
ACTCCCCTGCGCTACCAGCGTCTGGTGCCTCCCGCAGCCGCATCGTGCAGGACGCCCTCCCTGAAGGACAGCCCG
GCAGGCCGGGGGCTCAGCAAGGCCGCCGTGTCCGAGGAGCTCAAGTGGTGGCACGAGCGTGCACGCCTCCGGAGC
ACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCGGGGTCAGGAGCCTGCCCTTGGGAGAGAGGGCTTCGGA
CGAGCCCTGGGACCCCGGGCACAGGTGCCCACAGTTTGTGTGCTGCGGAGATCGCCTGATGGGGCCCCCTGTGCAA
GTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTAACCTCTGCGCCCCACGCTGGAAAAAACTGTTTCAT
AGAGGGGCTGGGCTGAGACCCCCCACCCCTGAGTGCCTCTTTTTCAGCTCCCCCATCCCCATCGCAGGCCGATGAC
CTGGAGCTGAGACCTTTTATTATTTTTTTTTTACACGACTTTTTTCAGAAGCCCTGACCTAAGGATTTATATATG
TGGATTGTCTCAATACCCCTGTGATATGATTATGTTTTATCCCCCAGAGTTTGGCCTACTGGACTTAAGGCCTT
GCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGCAGGGGACGAGTGAAGCAGAGTGAGCCACC
TTGGGAGTTTCTCAACGCTCTGTGCTCTGGTTCTAAGAAATTCCCTGGGGAAGTGCCTTGGCCCTCCTGTCCCA
CTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCTCCCCATTTCCAGGTCTCTGGGTACCCC
AGCCTGGGCTGGGGGAGAATCTCTTCCCCCTTTTCTAATGTGCTCTGTGATGCACACACCAAGTGGTAGGTCAAA
GGTCAGTATATCCCGGTGGTGTATTGTCTTGCTAGACCCTGCTATTTTCTGACCCCTAAATCCTCTTTAGGGA
CCCAGTCACTATACCCTGTCTATGCCCTGTGGGCTCCAGACCCCTGAGCTTTGAGTCAGTGGCATCACAGTTTG
TAGCCTCAGGGGGTCTGGCTGGGGGCTGGTCCATGCTTGTGGTTAGTGGACAGCAGCCACCCTTTGACAGCTACC
TCTGGGCATCTCAAGGGCTTGACAGCCCACTGCTCCTTCTAACATTTTGTGTTTTTGTGATGGAGTCTCGCTC
TGTCGCCCAGGCTGGAATGCTGTAGCAAGATTTCCGGCTCACTGCAACCCCGTCTCCCGGGTTCAAGCGAATCTC
CTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCACCATGCCTGCTAATTTTTTATTTTTTAGTAGAG
ATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTTGGCCTTTCAA
AGTGTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCTAACGTTTTTTCATCATAGTCCCCAAAACCAAT
ACTTTACAAGTGGTTTTTGAAAGGCACCACTTTTGTGGCATGTTCTGGTTGGGAGAGGGAGTCACAGTTCCTACT
CCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTATACAAACATGGACATACTCACTCCCAAGGGCT
GATGAGATGCTGAATTTTCTTTGGGGGCATTCAATTAATTGTCCAGCTGCAGCGACTGGAGCAAGTCTGGAAGCT
GCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTTCTCATCCTAGGGCCTTCTTTGCTTCCAGGTACAGGGACCTG
CTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGGAGAGCTGAGTTCTGACTTCACCTGTGCAGAAC
TCTCTGCCCCCATGTTACCTGGACTGGAACAGACTGTGAATATAGCAGAAGGTTCCAAGAAGTCTGGTGTCTGAC

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FIGURE 580B

CTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTAGCCGATTGCACAAGGGTGCCAAGGGAAGACCC
AGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCTGAAGGGATGCACCTGGCATTCTCTCACTGTG
CTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGCCCCCATGCGTGAATACCCTGCTTGGATGCTG
TGCTTTTCCGGTTTGTCTCTAAGCCCCCTTTCTCCAGGGCATGTTGGTTTCCCTGGCCTCTCAGTGTCTTAAGTGG
AGCCCAGAGTGCCTTGTTCTGAGCCAGGAGACGGCTGAGCACTGGCCCTCCACACCTAAGCGTCCTTTACATTAA
CTTATTGGTCTTGTATAACACCTGGTGCCATTGCCAAGTGGCTGTGTCTCAGCTACAGAGCTGGAATTGTGTGG
GGTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTTGTGATTGGCTG

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FIGURE 581

TCCCGGGCCGGGAGCCAGCAGGCCGGGAGCGGCTGAGGCCACACCCCGGGCCGGGCGCTTCCCTCCGGTGA
ATCATCGCTCGCAGCGGGCGCCCGCAGTGGCCGCAGCAGCGCGCGGGCCCTGGCCGCGCCCCAGCCGAGCGC
AGCGCGGAGTCGCCCCGACCTTTCTCTGCGCAGTACGGCCGCGGGGACCGCAGCATGGCGGGCATCGCGGCCAAG
CTGGCGAAGGACCGGGAGGCGGGCCGAGGGGCTGGGCTCCACGACAGGGCCATCAAGTACCTCAACCAGGACTAC
GAGGCGCTGCGGAACGAGTGCCTGGAGGCCGGGACGCTCTTCCAGGACCCGTCCTTCCCGGCCATCCCCTCGGCC
CTGGGCTTCAAGGAGTTGGGGCCCTACTCCAGCAAACCCGGGGCATCGAGTGGAAGCGCCCCACGGAGATCTGC
GCTGACCCCCAGTTTATCATTGGAGGAGCCACCCGCACAGACATCTGCCAAGGAGCCCTGGGTGACTGCTGGCTG
CTGGCAGCCATTGCCTCCCTCACCTTGAATGAAGAAATCCTGGCTCGAGTCGTCCCCCTAAACCAGAGCTTCCAG
GAAACTATGCAGGGATCTTTCCTTCCAGTTCTGGCAATACGGCGAGTGGGTGGAGGTGGTGGTGGATGACAGG
CTGCCACCAAGGACGGGGAGCTGCTCTTTGTGCATTACGCCGAAGGGAGCGAGTTCTGGAGCGCCCTGCTGGAG
AAGGCATACGCCAAGATCAACGGATGCTATGAAGCGCTATCAGGGGTGCCACCACTGAGGGCTTCGAAGACTTC
ACCGGAGGCATTGCTGAGTGGTATGAGTTGAAGAAGCCCCCTCCCAACCTGTTCAAGATCATCCAGAAAGCTCTG
CAAAAAGGCTCTCTCCTTGGCTGCTCCATCGACATCACCAGCGCCGCGGACTCGGAGGCCATCACGTTTCAGAAG
CTGGTGAAGGGGCACGCGTACTCGGTCACCGGAGCCGAGGAGGTTGAAAGTAACGGAAGCCTACAGAAACTGATC
CGCATCCGAAATCCCTGGGGAGAAGTGGAGTGGACAGGGCGGTGGAATGACAACCTGCCCAAGCTGGAACACTATA
GACCCAGAGGAGAGGGAAAGGCTGACCAGACGGCATGAAGATGGAGAATTCTGGATGTCTTTCAGTGACTTCCTG
AGGCACTATTCCCGCTGGAGATCTGTAACCTGACCCAGACACTCTCACCAGCGATACCTACAAGAAGTGAAAA
CTCACAAAATGGATGGGAACTGGAGGCGGGGCTCCACCGCGGGAGGTTGCAGGAACTACCCGAACACATTCTGG
ATGAACCTCAGTACCTGATCAAGCTGGAGGAGGAGGATGAGGACGAGGAGGATGGGGAGAGCGGCTGCACCTTC
CTGGTGGGGCTCATTGAGAAGCACCGACGGCGGCAGAGGAAGATGGGCGAGGACATGCACACCATCGGCTTTGGC
ATCTATGAGGTTCCAGAGGAGTTAAGTGGGCAGACCAACATCCACCTCAGCAAAAACCTCTTCTGACGAATCGC
GCCAGGGAGCGCTCAGACACCTTCATCAACCTCCGGGAGGTGCTCAACCGCTTCAAGCTGCCGCCAGGAGAGTAC
ATTCTCGTGCCTTCCACCTTCGAACCCAACAAGGATGGGGATTCTGCATCCGGGTCTTTTCTGAAAAGAAAGCT
GACTACCAAGCTGTGATGATGAAATCGAGGCCAATCTTGAAGAGTTCGACATCAGCGAGGATGACATTGATGAT
GGATTGAGGAGACTGTTTGCCAGTTGGCAGGAGAGGATGCGGAGATCTCTGCCTTTGAGCTGCAGACCATCCTG
AGAAGGGTTCTAGCAAAGCGCCAAGATATCAAGTCAGATGGCTTCAGCATCGAGACATGCAAAATTATGGTTGAC
ATGCTAGATTTCGGACGGGAGTGGCAAGCTGGGGCTGAAGGAGTTCTACATTCTCTGGACGAAGATTCAAAAATAC
CAAAAATTTACCGAGAAATCGACGTTGACAGGTCTGGTACCATGAATTCCTATGAAATGCGGAAGGCATTAGAA
GAAGCAGGTTTCAAGATGCCCTGTCAACTCCACCAAGTCATCGTTGCTCGGTTTGAGATGACCAGCTCATCATC
GATTTTGATAATTTTGTTCGGTGTGTTGTTTCGGCTGGAACGCTATTCAAGATATTTAAGCAGCTGGATCCCGAG
AATACTGGAACAATAGAGCTCGACCTTATCTCTTGGCTCTGTTTCTCAGTACTTTGAAGTTATAACTAATCTGCC
TGAAGACTTCTCATGATGGAATAATCAGCCAAGGACTAAGCTTCCATAGAAATACACTTTGTATCTGGACCTCAAA
ATTATGGGAACATTTACTTAAACGGATGATCATAGCTGAAAATAATGATACTGTCAATTTGAGATAGCAGAAAGTT
TCACACATCAAAGTAAAGATTTGCATATCATTATACTAAATGCAATGAGTCGCTTAACCTTGACAAGGTCAA
AGAAAGCTTTAAATCTGTAAATAGTATACACTTTTTACTTTTACACACTTTCCTGTTTCATAGCAATATTAAATCA
GGAAAAAATATGCAGGGAGGTATTTAACAGCTGAGCAAAAACATTGAGTCACTCTCAAAGGACACGAGGCCCTT
GGCAGGGAATATTTAAAGCAACTTCAAGTTTAAATGCAGCTGTTGATTCTACCAAACAACAGTCCAAGATTACC
ATTTCCCATGAGCCAACCTGGGAAACATGGTATATCATGAAGTAATCTTGTCAAGGCATCTGGAGAGTCCAGGAGA
GAAGACTCACCTCTGTGCTTGGGTAAACAAGAGACAGTTTTGTAGAATATTGATTGGTAATAGTAAATCGTT
CTCCTTACAATCAAGTTCTTGACCCTATTTCGGCCTTATACATCTGGTCTTACAAAGACCAAGGGATCCTGCGCT
TGATCAACTGAACCAGTATGCCAAAACAGGCATCCAATTTGTAAACCAATTATGATAAAGGACAAAATAAGCTG
TTTGCCACCTCAAACTTTATGAACCTTACCACCACCTAGTGTCTGTCCATGGAGTTAGAGGGGACATCACTTAGA
AGTTCTTATAGAAAGGACACAAGTTTGTTCCTGGCTTTACCTTGGGAAAATGCTAGCAACATTATAGAAATTTT
GCCTTGTTCCTTATCTTCTTCCAAATGTACTGTAAATAAAAATAAAGGTTACCCCATGCAATCACACCATGC
CATGTTTTCTTCTTGGAGGGCAGCCCCACAGGACGTTTATGAGCACACAATTATAGCTTGTCTTACTTTAAC
AAGGTATGCTGCCTCTGTAAATTCATGTATTCAAAGGAAAAGACACCTTGCCTATAATTAATTAATGTGGAACATA
AAATTTTTTAAATCC

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FIGURE 582

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATTATGGTGAGTTCCATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTACCAGGCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCTTCTACCTCACTTGGACCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 583

GGTATTTTCAGGACAGCCAGGAGGGGGCGCACATCCGCCGAGAACTGTGAGCAAGAGCGTCTGTGCTGAACCATG
GCGCCACCAGAGGGCGCGGATCCCGCCCCAACCACTTCCCGCTGAGGTGCCAGAAGCAGCGAGGAGCTTCAGC
TTCCTCAGGGCAGCAGAGGGTCGTGTTAACTTGGTGTCTTCATTGATGATGATTATTTCCCCACCTTCTAAGAG
ACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCTGCCAATGCTGGGGAACGGAAATGAGGGAGTTC
AACTCTGGCCCTCACAATCCAGTGGAGGAGACGAACTCATCTGCCTCTGTCCCTCTGGGCACGCCTCATGCCAG
GTGCATCTGTGGACAGGGGCCATGCCCTGGGCTTCCAAAGTTGGAGAGAGCTGCCAGGCTCAGGTCTGAAGGCC
AGAATTCTACAGTAAGTCTACTGAGTCAAGGTGGGAGCAGGGTCGGTAGCTTCCGAGGCTCTGCGGGAGAATCC
GTTTCCTGGCCGTAGAGGTGGCCTGCACTCCGCAGCTTGTGCTGCCCGTCTCGAATGACTGGAGTTTCTTGCTTC
TGTCATAACCTCCCACCTCTCCATCACCTGCTCTGCTCTTACAAGGATCCGAAGAAATGGAATCATCGTATC
GCTGATCTACGTAAACAACTGAAGAATTGTCTGAAAGAAAATATGACATGAACCTTATGAATTCACAGGTGAAG
ATTTACAACCTTGATAAATCAACTTTGTCTAGCTCGAGCTGTAAAAGCCAAAGGTCCGGTGATGATCCCATACCTT
TTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCCTTCCCAAAGGAATTTTTTTTTTTTTTTTTTTGA
GATGGAGTTTTCACTCTTATCGCCAGGCTGGGGTGCAATGGCGCAACCTTGCTGGTCACTGCAACCTCTGCCTC
CTGGGTTCAAGAAATTTCTCTGCTTAGCCTCCCAAGTCACTGGGATTACAGGTGCCCCACCACCATACCAGGCTA
ATTTTTGTATTTTTAGTGGAGATGCGGTTTACCATGTTGGCCGGGCCAGTCTCGAACTCCTGACGTCAAGTGAT
CTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGCCTCCAGAGTGCTGAGATTACAGACGTGAA
CCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTTCTACTAATGGAATTCCTGGCCTTGAGAGGATGTTA
CTTTAGAAGGAAAGGATTTTTTGTATTATAAAGCTGGACCTACCATGAAAGACTTCTGAATCCAGGAAGAGAAA
CTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCACTCAGGATGGAGTTCAGTGGTCTATCATG
GCTCATTATAGCCTCAAACCTCCAGGCTCAAGCAATCCTACCATGTCAGCCTTCCAGTAGCTGGGACTACAGAT
ACCGGGTCTCACACTGTCACCCAGGCTGGAGTACAGTGGCACAACCTCTGCTCACTGCAGCCTCCACCTGCCAGG
CTCAAGCAATTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTTCCAGGATGTGAGCTCACAATGACTCAAGCT
GCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGCTACAAGTTGACCAC
TGCAGCAGTAAAGATGACTCTGAAGAATGGCGTGGGTTGGTTCTTTCAAATGCACCTTGAGCAGCGGTCTCCAAC
CACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGTGAATCCAGGAAGAGAGACTGACTGGGCAAC
ATGTTATTTCAGAATCTTCTGTGCCATCCAGGCTGGAGTGCAGTGATGTGATCATAGCTCACTATAGCTTTGGCC
TTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTAGGACTACACACGCATGTCACCCATGCCAG
ATCATTTTTGTAGAGTCAGAGTTTACCCTGGTGGCCAGGTTGGCCATGTTGGCCAGATGGGGTCTTCTTTTGT
GCCAGGCTGGCCACAAATTCCTGGGCTCAAGTGATCCTCCACCTCGTCCTTGTAGAGATGAGATTTAGTTATG
TCGTCCAGGCTGATCTCAAACCTCCTGGGCTAAATCGATTGTCTCACCTCAGCCTCTCAAGTATGTTATGAAGGTT
ATATGTTAGGAAGGGTCCCAGGAGGTAAACCCACACAGATGGGATTTGGGCATAGGTTTGGTTTCCCAGGGGGCA
GTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCCAGTAGGTGACCTCACAGTGAATCAAGCTAC
CACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCTTGGGAGCTAAGTGGTTGCTGCCCTTGACCA
CTGTGAAGACTGGTGTGGGAAGGGTCGTTTTGGATGCACCTTAGCAGGGGTCCCCAACCCCTGAGCCATGGAGCC
GCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAAACAAGCTTAACACGCCCACTGATTCTACA
TTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGA
CTCTCAATGGCCTATTTAGGCCCATACCCTACGTACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGC
CTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCC
CTGAACCTTTCTCAAGTTGACCTCACCAGGCCAGCTCATGCTTCTTGCAGCCTCTCCAGGCCAGCTCCTGCAT
CTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATT
CTTACGCCCAGCTTCTACCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTACAGCAGCTTCTACACACCC
AGCTCCTGCCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTACAAGGGCCTTTCCAGGCCCAACTTTTGTCT
CATGGCAACCTTCCCTGGCCAGATTCTGCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCTCACACTG
GCCTCTCTACATCCAGCTTATGCCTCACGGTGGCCTCTCCA

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FIGURE 584

MMIIPHLLRDKDQRATTATSPRTRQCWGTENEGVOLWPSQSSGGDETHLPLSLWARLMPGASVDRGHAPGLPKLE
KAARLRSEGQNSTVSPTESRWEQGR

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FIGURE 585

GGACGGAAGGAGCGGCGGCGACGGAGGAGGAGGATGGAGGCGGTGGTGTTCGTCTTCTCTCTCCTCGATTGTTGC
GCGCTCATCTTCTCTCGGTCTACTTCATAATTACATTGTCTGATTTAGAATGTGATTACATTAATGCTAGATCA
TGTTGCTCAAAATTAAACAAGTGGGTAATTCCAGAATTGATTGGCCATACCATTGTCAGTATTACTGCTCATG
TCATTGCACTGGTTCATCTTCCCTTCTCAACTTACCTGTTGCCACTTGGAATATATATCGATACATTATGGTGCCG
AGTGGTAACATGGGAGTGTGTTGATCCAACAGAAATACACAATCGAGGGCAGCTGAAGTCACACATGAAAGAAGCC
ATGATCAAGCTTGGTTTCCACTTGCTCTGCTTCTTCATGTATCTTTATAGTATGATCTTAGCTTTGATAAATGAC
TGAAGCTGGAGAAGCCGTGGTTGAAGTCAGCCTACACTACAGTGCACAGTTGAGGAGCCAGAGACTTCTTAAATC
ATCCTTAGAACCGTGACCATAGCAGTATATATTTTCTCTTGGAAACAAAAAACTATTTTGTGCTGATTTTACCA
TATAAAGTATTTAAAAAACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 586

MEAVVFVFSLLDCCALIFLSVYFIITLSDLECDYINARSCCSKLNKWWIPELIGHTIVTVLLLSLHWFIFLLNL
PVATWNIYRYIMVPSGNMGVFDPTTEIHNRGQLKSHMKEAMIKLGFHLLCFFMYLYSMILALIND

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FIGURE 587

CCCTAATCAAGTACCCCTCCTCCTCCACCACCTCCTGCCCCACCCCTCCCTGCATCTGGATTCTTTTTGGCATC
CATGTCAGAAGACAATCGCCCTTTAACTGGACTTGCGAGCTGCAATTGCCGGAGCAAACTTAGGAAAGTGTACAG
GATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGTGTGAAGTCCGCTCATCTAAACAGATACAGG
CCGTGGAAATGGACCCCTTCCTTTAGGGGGTAGTGGTTTAAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAG
AAGAATTGCTGAAAAGGGATCAACAATAGAAACAGAACAAAAAGAGGACAAAGGTGAAGATTCAGAGCCTGTAAC
TTCTAAGGCCCTCTTCAACAAGTACACCTGAACCAACAAGAAAACCTTGGGAAAGAACAAATACAATGAATGGCAG
CAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGG
ACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCT
CATTGATGCAATCAGGCAGGAACCTGAGCAAGTCAAATACTGCATAGAGGAACAGACTAAGGAGAGATAGGACTTT
AATCTGGAGGAAAAATATCCTACAAACAACAACCTGTTCAACAGCAAAACCCCTACATTTATGAGCTGTAAGAAG
AAAATGGAGACAAACAGAAGGAGGGAAAAACCAACCTACTCTGAAAGCCTTCAGACATTATGACTCTGGTGATAA
GCTCTTTCCCTCTCCGTTTGCTGCTTTTTCTGGCCTTTACAACAGAATGGAAGAGAATCATTTAAGAGTTCCTG
TAACAGTTATGCAGAAAATACTAAACCCATCAGGCAAGATCACCACGCATTGAAATATTTTCATATCAAGATAA
AGTCGCACATTTTCCACAATACATTGCTAAAATAAGAGGAGAAAGGCTTAGGAAGTTTTTCTGCAGAGAGTGCT
GGTAAAGAATTGAGCAAGTTTGCTATTGTATTGTAATGTTTCTCTCAGGTTTGTTCTTCCTATCATGTTTGATAT
TCCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATGTGGAACAAATGGAATTGTAAGTGCTTT
CAAAGGGTAATATTTATAAGAAAGTGCCGAAAAATGTTTCTTCAGCTTGAGAAATTTTAGAATGATAGGAAGTT
TCTCGAGTTAGCCTTCATGCAATTTTGTAAGTTAAACATAAAATTTGTCCAGAACCTAAAGATTTAGATGCCTT
CCTAAATTGTTACAATGCTTTACCAAATCTATGACTTCTACATAACACAAACCAGTGGTCAAATGTAAACACTAT
ATTGTAGATTTACTGTAGGTTTTCAACCTTTTTTAGATTTATGCATGTGGACATTTTTATAATGTAATTACAATC
ACCACAAGGTTAGCTTTTTTAATTGCAGACAGTAATGCATGTCACTAATATGTAGTGGCCTTTTCAAGGCCTA
GTCCAGGGAAAAACATTTTGTAAGTATAGGGGAGTGGGAGGAAGGGGAGGAATAATTTTTTATTAAAGTTGAT
TTCTGCACTATCTTTTTCTCAGTTACCTGCATGAATAAATAATGAGAAATATTTTGTAAGTTAATTGTTAAATA
TGTTACAAAACCAAGTACTTAATCTTTTACATCATGTCTTCAGCTATTTGTATTTTAACCAGTAATTTCAATGGT
CTGAAACATGATTCTGAGCTTCACATAATATCTTAACTGTGGAACCTCAAAGTTTGATCACTGAATTTGGCAGTT
ATTATTACCTAGGTACCCCGCTGTTACACAGGTGTTTAGATACGTGTTCTGAATGAAGCTGCTTTTGAATTTT
GTTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTACAGAAATCATTAGGTAAAGGAAAACCA
ATGAGGAGTTCTGCAGTTTTCTTTTAATAAGTAAAGTGAGACTTGGGTGGTGGGAAGAAGGAAGGTGGGAAGAAG
GAATTAGACACTCTGCCTGCCACTCTGCGTGTGTGTGCTCTCGCGACGTGCTGTCTATATGGAAGCCACTCCCT
TTTCTTTCTTTGAAACTGGTAAGGTTAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTTTGGAAAA
TTTAAGAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTGCCATATTTGCTTTGAACTCTGA
TTATCAGAAGTTTTACTAAAACCTTTGAAATAATCACTTTTCTGCTTTCTAGATTTTGTACATCTCAGTCCAT
AAAGCAAAGCTTGTTGATAGTGTAGTTTTCTAAACGCTGCAATTTGCAGCCTTTACCACTACAAAGAAGTTTGG
ATGAGGGATTTTTTTTTTCTTTGTCAAAATAGTTCCTGTTTCTGTAGAAATTTTATTTTAGATTAACTGTGAT
GGATGGGCTATCATAATTCAAGTATACATTTCTTTTTCTATCAGATATTCATTGTGCATGCAGTAGTAGTAAAAA
CATCAAAGATGCAGCAAGCTTATTAAGTATTATTTTCTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTA
CTTTTGGTTATGCAACACTTTGATAATATAAACAGTTATGTCCCCTATAAATCTGGTCAGCAACCTCTTTTGAT
TTTGTGGGTAAGTTAAATAGTCTGTAGTAGGTAGAGTACTGGGTACAAGTGGTCCAACTAAGATAAGAGACTA
AAATAAAATGCTAAATCTTAAAGAACTGGGTTTTATGCACTAAACGTTTTGTGCCTTGGTCTAATATTAACATG
ATGTATGTGTAACTGAC

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FIGURE 588

MSEDNRPLTGLAAAIAGAKLRKVS RMEDTSFPSSGGNAIGVNSASSKTD TGRGNGPLPLGGSGLMEEMSALLARRR
RIAEKGSTIETE QKEDKGEDSEPVTSKASSTSTPEPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEG
LDYDRLKQDILDEMRKELTKLKEELIDAIRQELSKSNTA

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FIGURE 589

GGGGCTGCTGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGTTGGGCCGGGTTCTGAGGCCTTGC
TTCTCTTTACTTTTTCCACTCTAGGCCACGATGCCGCGAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGA
AGCTTTACCTCGCTGACCCTATGAAGGCACGTGTGGTTCTCAAATATAGGCATTCTGATGGGAACCTGTGTGTTA
AAGTAACAGATGATTTAGTTTGTGTTGGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCC
ACAGTCAACTAATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAAACTGAGTGAATGGTTTGAA
ATGAAGACTTTGTCGTGTACTTAGGAAGTAAATATCTTTTGAATTAGAGAAAGTGTGTTGGGACAGAAAGTACTTTA
TGTAACATAAGTGGGCTGTTTCTAGAAAGCTTAGAGGTCATTTTTTGTAAATTTCTTTTTAATTACTTTAGAGAGCTAG
GGATGCAAATGTTTTCTAGTTAGAAAGCCTTTATTTACTTTTTGGAAATTGAACAAGAAATGCATCTGTCTTAGAAA
CTGGAGATTATTTGATGTTAGGTAAAACATGTAATTGTTTCTCTGGCAAATTTGTATCAGTAATTTGAAAATGAG
ATATTAGGAAAAACCAATTCTTCTTAAATTTAGTTTCATCTTTCTTTAAAGAACATTAAATGTAACCATTTTGTCTC
AGATCCATGTATTTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAATATAAAATATGTAATTGGAATTAAC
TCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTATATCTG
AAAGTAATTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAAACTACCTGTTAATATAAGGGATTGTGA
GTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCTAGTGATCAGAAGCAGCAGTTATTTGAGTGTATGAAT
GGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTCCATCTG
TAGTTTCTCAGAAGGGCTATGGATTAGTTTGAAGTGTCAAATCCTTGCATACTTCTGTGACACCCCTGCCCATTT
TCTGTCTTTAATTAACCAAGGTGTTAGGTGTGACTGTGACAACTGTTATGTTTTCCAGTAAACTAGAAGTACGAT
ATTTGATAATTATATTTGTATTTTACCACCTAAATGTAATGTTGATTCTCAAGAATGAAATGAAGGCACTACAT
TGAAATATGTTTTGTATAAATTTGTCATGTTGAACAGCATTTTAGCATGGTAAGTCCCTTAGCTATATGAATTT
TGGCATGTTTCAGAGAGATCAGTAAATAAAATATTAGAT

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FIGURE 590

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHSDGNLCVKVTDDLVLVYKTDQAQDVKKIEKFHSQLMRLMVA
KEARNVTMETE

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FIGURE 591

GCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCAGCTGGCCTATGCTCTG
GCGCGGGGCTTCACGGCCGCAGGCATCCTGTGCGCTCACAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCCC
ACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTC
CTGTTTCTGGCTGTGAAGCCACATATCATCCCTTCATCCTGGATGAGATTGGGGCCGACGTGCAAGCCAGACAC
ATCGTGGTCTCCTGTGCGGCTGGTGTACCATCAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCC
AAAGTGATTTCGCTGCATGACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTACGCCACGGGCACCCAT
GCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGAGGTGGAAGAGGAC
CTCATCGATGCCGTCACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTTCATGGCTCTGGACGCATTGGCTGAT
GGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACTCGGGGCCCAGGCTTTGCTGGGAGCTGCCAAG
ATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCTGGGGGAGCCACCATCCAC
GCCCTGCACCTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGCCTCCTGTATCCGAACA
CGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGACCCTCTTAGACAGAGTG
AAGCTGGAATCCCCACAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGCTCCTCACAAGAAGCCTGGCCCTG
GGAGGCAAGAAGGACTAAGGCAGCATC

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FIGURE 592

TTTTCTTTTGACTTGTTTGTGGATGGAATGTTTACAGACATTTCTAATTACTGCTTTAATTAAATAAAATTGGATC
AAAGGCCGTTTCGAGGTATTTTTGTTTTGCCGTTTGTGCTCAGAAATTGGCATTTTGAGAGGTGATTGATACTGCT
AACAAATTTTCTAGTACTCTAGTTTGTTCAGAAGAGATTTTGGGTAGACGTAATCTTCACCCCTTTCAAATTATA
TAACAATACGAACATTATTTTTTATACTGATCATAATTTCCAGATTTGGGGAGGGGGTGATCGTGCCAGGAAAAG
TTGTATGTTTGGTAGTTGCATATGGTGATTTTTTGATTTTCAATGCTGGTAGGTAAGTAAGGAGGTCTCTGTACC
ATGGCTCGTACAAAGCAGACTGCCCCGAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCC
GCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGT
GAAATTAGACGTTATCAGAAGTCCACTGAACCTTCTGATTCGCAAACCTCCCTTCCAGCGTCTGGTGCGAGAAATT
GCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTAT
CTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATC
CAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTATTCTCAAAAAA
AAAAAAAAAATTTCTCTTCTTCTGTTATTGGTAGTTCTGAACGTTAGATATTTTTTTTCCATGGGGTCAAAAGG
TACCTAAGTATATGATTGCGAGTGGAATAAGGGGACAGAAATCAGGTATTGGCAGTTTTTCCATTTTCATTTG
TGTGTGAATTTTAAATAAATGCGGAGACGTAAAGCATTAATGCAAGTTAAATGTTTCAGTGAACAAGTTTCA
GCGGTTCAACTTTATAATAATTATAAATAAACCTGTTAAATTTTTCTGGACAATGCCAGCATTGATTGTTTTTA
AAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTTGTAGCATTTTTATCATAACAGTAGATTCCATCCAT
TCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACATGTTTTTAATGTTGTCTGTCTTCTGTGCTGTTT
CTGTAAGTTTGCTATTAAAATACATTAAACTAT

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FIGURE 593A

AATCTATCAGGGAACGGCGGTGGCCGGTGGCGCGTGTTCGGTGGCGGCTCTGGCCGCTCAGGCGCCTGCGGCTGG
GTGAGCGCACGCGAGGCGGCGAGGCGGCAGCGTGTCTTAGGTCGTGGCGTCTGGGCTTCCGGAGCTTTGGCGGCA
GCTAGGGGAGGATGGCGGAGTCTTCGGATAAGCTCTATCGAGTCGAGTACGCCAAGAGCGGGCGCGCCTCTTGCA
AGAAATGCAGCGAGAGCATCCCCAAGGACTCGCTCCGGATGGCCATCATGGTGCAGTCGCCCCATGTTTGATGGAA
AAGTCCCACACTGGTACCACTTCTCCTGCTTCTGGAAGGTGGGCCACTCCATCCGGCACCCCTGACGTTGAGGTGG
ATGGGTTCTCTGAGCTTCGGTGGGATGACCAGCAGAAAGTCAAGAAGACAGCGGAAGCTGGAGGAGTGACAGGCA
AAGGCCAGGATGGAATTGGTAGCAAGGCAGAGAAGACTCTGGGTGACTTTGCAGCAGAGTATGCCAAGTCCAACA
GAAGTACGTGCAAGGGGTGTATGGAGAAGATAGAAAAGGGCCAGGTGCGCCTGTCCAAGAAGATGGTGGACCCGG
AGAAGCCACAGCTAGGCATGATTGACCGCTGGTACCATCCAGGCTGCTTTGTCAAGAACAGGGAGGAGCTGGGTT
TCCGGCCCCGAGTACAGTGCAGTCAAGGGCTTCAGCCTCCTTGCTACAGAGGATAAAGAAGCCCTGAAGA
AGCAGCTCCCAGGAGTCAAGAGTGAAGGAAAGAGAAAAGGCGATGAGGTGGATGAGTGGATGAAGTGGCGAAGA
AGAAATCTAAAAAAGAAAAAGACAAGGATAGTAAGCTTGAAAAAGCCCTAAAGGCTCAGAACGACCTGATCTGGA
ACATCAAGGACGAGCTAAAGAAAGTGTGTTCAACTAATGACCTGAAGGAGCTACTCATCTTCAACAAGCAGCAAG
TGCCTTCTGGGGAGTCGGCGATCTTGGACCGAGTAGCTGATGGCATGGTGTTCGGTGGCCCTCCTTCCCTGCGAGG
AATGCTCGGGTCAGCTGGTCTTCAAGAGCGATGCCTATTACTGCACTGGGGACGTCACTGCCTGGACCAAGTGTA
TGGTCAAGACACAGACACCCCAACCGGAAGGAGTGGGTAACCCCAAAGGAATTCCGAGAAATCTCTTACCTCAAGA
AATTGAAGGTTAAAAAACAGGACCGTATATTCCCCCAGAAACCAGCGCCTCCGTGGCGGGCCACGCCTCCGCCCT
CCACAGCCTCGGCTCCTGCTGCTGTGAACCTCTGCTTCAGCAGATAAGCCATTATCCAACATGAAGATCCTGA
CTCTCGGGAAGCTGTCCCGGAACAAGGATGAAGTGAAGGCCATGATTGAGAACTCGGGGGGAAGTTGACGGGGA
CGGCCAACAAGGCTTCCCTGTGCATCAGCACCAAAAAGGAGGTGGAAAAAGATGAATAAGAAGATGGAGGAAGTAA
AGGAAGCCAACATCCGAGTTGTGTCTGAGGACTTCCTCCAGGACGTCTCCGCCCTCCACCAAGAGCCTTCAGGAGT
TGTTCTTAGCGCACATCTTGTCCTTGGGGGGCAGAGGTGAAGGCAGAGCCTGTTGAAGTTGTGGCCCCAAGAG
GGAAGTCAGGGGCTGCGCTCTCCAAAAAAGCAAGGGCCAGGTCAAGGAGGAAGGTATCAACAAATCTGAAAAGA
GAATGAAATTAACCTTTAAAGGAGGAGCAGCTGTGGATCCTGATTCTGGACTGGAACACTCTGCGCATGTCTGG
AGAAAGGTGGGAAGGTCTTCAGTGCCACCCTTGGCCTGGTGGACATCGTTAAAGGAACCAACTCCTACTACAAGC
TGCAGCTTCTGGAGGACGACAAGGAAAACAGGTATTGGATATTTCAGGTCTTGGGGCCGTGTGGGTACGGTGATCG
GTAGCAACAACTGGAACAGATGCCGTCCAAGGAGGATGCCATTGAGCACTTCATGAAATTATATGAAGAAAAAA
CCGGGAACGCTTGGCACTCCAAAAATTTACGAAGTATCCCAAAAAGTCTACCCCTGGAGATTGACTATGGCC
AGGATGAAGAGGCACTGAAGAAGCTGACAGTAAATCCTGGCACCAAGTCCAAGCTCCCAAGCCAGTTCAGGACC
TCATCAAGATGATCTTTGATGTGGAAAGTATGAAGAAAGCCATGGTGGAGTATGAGATCGACCTCAGAAGATGC
CCTTGGGGAAGCTGAGCAAAAGGCAGATCCAGGCCGCATACTCCATCCTCAGTGAGGTCCAGCAGGCGGTGTCTC
AGGGCAGCAGCGACTCTCAGATCCTGGATCTCTCAAATCGCTTTTACACCTGATCCCCCAGCACTTTGGGATGA
AGAAGCCTCCGCTCCTGAACAATGCAGACAGTGTGCAGGCCAAGGTGGAATGCTTGACAACCTGCTGGACATCG
AGGTGGCCTACAGTCTGCTCAGGGGAGGGTCTGATGATAGCAGCAAGGATCCCATCGATGTCAACTATGAGAAGC
TCAAAACTGACATTAAGGTGGTTGACAGAGATTCTGAAGAAGCCGAGATCATCAGGAAGTATGTTAAGAACACTC
ATGCAACCACACACAATGCGTATGACTTGGAAGTCATCGATATCTTTAAGATAGAGCGTGAAGGCCAATGCCAGC
GTTACAAGCCCTTTAAGCAGCTTCATAACCGAAGATTGCTGTGGCACGGGTCCAGGACCACCAACTTTGCTGGGA
TCCTGTCCAGGGTCTTCGGATAGCCCCGCTGAAGCGCCCGTGACAGGCTACATGTTTGGTAAAGGGATCTATT
TCGCTGACATGGTCTCCAAGAGTGCCAACTACTGCCATACGTCTCAGGGAGACCCAATAGGCTTAATCCTGTTGG
GAGAAGTTGCCCTTGGAACATGTATGAACTGAAGCACGCTTCACATATCAGCAAGTTACCCAAGGGCAAGCACA
GTGTCAAAGGTTTGGGCAAACTACCCCTGATCCTTCAGCTAACATTAGTCTGGATGGTGTAGACGTTCTCTTG
GGACCGGGATTTTCATCTGGTGTGAATGACACCTCTCTACTATATAACGAGTACATTGTCTATGATATTGCTCAGG
TAAATCTGAAGTATCTGCTGAACTGAAATTTCAATTTAAGACCTCCCTGTGGTAATTGGGAGAGGTAGCCGAGT
CACACCCGGTGGCTCTGGTATGAATTCACCCGAAGCGCTTCTGCACCAACTCACCTGGCCGCTAAGTTGCTGATG
GGTAGTACCTGTACTAAACCACCTCAGAAAGGATTTTACAGAAACGTGTTAAAGGTTTTCTCTAACTTCTCAAGT
CCCTTGTTTTGTGTTGTGTCTGTGGGAGGGGTGTTTTGGGGTGTTTTTGTTTTTCTTGCCAGGTAGATAAA
ACTGACATAGAGAAAAGGCTGGAGAGAGATTCTGTTGCATAGACTAGTCCTATGGAAAAACCAAGCTTCGTTAG
AATGTCTGCCCTTACTGGTTTCCCCAGGGAAGGAAAAATACACTTCCACCCTTTTTTCTAAGTGTTTCGTCTTAGT

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FIGURE 593B

TTTGATTTTGGAAAGATGTTAAGCAATTTATTTTGTAGTTAAAAATAAAAACTAATTCATACTATTTAGATTTTCT
TTTTTATCTTGCACTTATTGTCCCCTTTTGTAGTTTTTTTTGTTTGCCTCTTGTGGTGAGGGGTGTGGGAAGACCA
AAGGAAGGAACGCTAACAATTTCTCATACTTAGAAACAAAAAGAGCTTTCCTTCTCCAGGAATACTGAACATGGG
AGCTCTTGAAATATGTAGTATTAAGTTGCATTG

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FIGURE 594

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTGCGCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAG
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAAGCCAGGGAGCATCATTATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCCGGGATTTCAGACCTCTCTGCGGCCCCAAGTGTTTCGTGGTGCTTCCAGAGGCAGGGCT**ATG**CTCAC
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGTGATGAGCGGACGTCCCTAATGTCGGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCCAGAGGATGGAGAGAACACTGCCAGTGGAGAAGCCAGGAGAAGCA
GGAGGACGGTGAGGAGGACCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGCCAGGCCTGGAGGAAGA
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCACTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTCCCTCTTACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC
CCTCTTGCTGACTGTCTGGAACCTCGGGGCGAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGCA
GCAGGCCTACCTCATGATCAGTGCCTCATGGCCCTAGTGTTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTGCCAAAGGGCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCTACGACCCGGAGATGGAAGAAGACTCCTA
TGACAGTTTTGGGGAGCCTTCATAACCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGA
GGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGC
TGCCACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCCT
CCTGCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCCGCCCTCCCCATCTCCATCACGTTCCGGGCTCATCTTTTACTT
CTCCACGGACAACCTGGTGC GGCCGTTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCT**AG**AGGACATGGTG
TGCCACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTTACACTCTAGTGCCATATATTT
TTAAGACTTTTCTTCTTAAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTG
CCAGCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGT
TTATCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAG
AGTGTGCTCGGGAGTGGCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTTACGAGGAGTGT
TCCCAATGCTTTGTCATGATGTCCTTGTTATTTTATTGCCCTTTAGAACTGAGTCCTGTCTTGTGTACGGCAGT
CACACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA

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FIGURE 595

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEEDGEEDPDRIYVCSGVPGRPPGL
EEELTLKYGAHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLNLSVLNTLIMISVIV
VMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALYSSAMVW
TVGMAKLDPSQALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEERGVKLGGLGDFIFYSVLVG
KAAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

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FIGURE 596

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAAG
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAGCCAGGGAGCATCATTCAATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCCGGGATTACAGACCTCTCTGCGGCCCAAGTGTTCTGTGGTGCTTCCAGAGGCAGGGCTATGCTCAC
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTTGTGATGAGCGGACGTCCCTAATGTGCGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACAAGTGGCCAGTGAGGAAGCCAGGAGAACGA
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGCCAGGCCTGGAGGAAGA
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCAGTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGTCTTACAAGTACCGCTGCTACAAGTTCAATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTTCTTACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC
CCTCTTGCTGACTGTCTGGAACCTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGTGCA
GCAGGCCTACCTCATCATGATCAGTGCGCTCATGGCCCTAGTGTTCATCAAGTACCTCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCCTACGACCCGGAGATGGAAGACTCCTATGA
CAGTTTTGGGGAGCCTTCATACCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGAGGA
AGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGCTGC
CACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCTCCT
GCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCGCCCTCCCATCTCCATCACGTTGGGCTCATCTTTTACTTCTC
CACGGACAACCTGGTGCGCCGTTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTGTGC
CACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTACTCTAGTGCCATATATTTTTTA
AGACTTTTCTTTCTTAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTGCCA
GCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGTTTA
TCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAGAGT
GTGCTCGGGAGTGGCCCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTACGAGGAGTGTTCC
CAATGCTTTGTCCATGATGTCTTGTATTTTATTGCCTTTAGAAACTGAGTCTGTTCTTGTACGGCAGTCAC
ACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTAGAAAAA

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FIGURE 597

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEEDGEEDPDYVCSGVPGRPPGL
EEELTLKYGAHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLNLSVLNLTIMISVIV
VMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTWVWNGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW
TVGMAKLDPSSQGALQLPYDPEMEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEEEERGVLGLGDFIFYSVLVGK
AAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

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FIGURE 598A

TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCCCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT
TCTTGAAGCCCAGCAGGCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAAACTATAATGAA
GTATGCAGAGAAGCTAATTCAAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGAATCTAAACATAGAAAAAACCTATTGAGAAGAACTACAAATGTGGGAAGAAATGAAAA
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGGCAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCTTTATCGCTGCAAAATTCAACCACATCCAAGAAGTGGAAATAAATACAATGTTTATCCAACATATGA
TTTTCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACCTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCTACGGTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTTCAGTCGTGAACATGGAGTGGGACAAAATCTGGGCGTTTAAACAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAGAAGTGATCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAAATGCAGATGGAAAATCATATCTCTTGATGCAAAGTTGAATTTGGAAAACAAAGACTACAAGAA
AACCCTAAGGTCACCTTGGCTTGCAGAGACTACACATGCTCTTCTTATCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAGGAGATATTATACAACCTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTCGTGAATTAAGGCAAGAAAGCACCAGGAAGATGTAGA
TGCAGCTGTAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAAGTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGXXXXXXXXXXXXXXXXXX
XX
XX
XXXXXXXXXXXXXXXXXXCTTCTCAAGGGGAAGTAGTTTCGGAACTTAAAAGTGAAGAAAGCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAAGAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAAATGATGGCCAAAGGAAAGACCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAGAAAGAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAAGTGTACTT
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCGTCCTACTAGTGAACAGTAATGTATCC
TGATATGCAAAATGGGTACAATCACACAGAGACCTGCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG
GGAATTCAAGCATCCTCAGCCTTTCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGTGTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGACATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAGGAAAAATTTGCAGGAGGAGACTATACAACATAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTCCAAAATGTTTGA

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FIGURE 598B

AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGAAGACATCCAGGTCACCCTTTTTCACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTTTAAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT
ATCATGAACTA

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FIGURE 599A

AGTAGCTGCGGCGCAGGGGCGGAGCGAAGGCTGCGGCGGCGTGGGTACGCGCACACGTTGCATCTTCTTCCTTT
CGCGGGGTCCTCCGTAGTTCTGGCACGAGCCAGGCGTACTGACAGGTGGACCAGCGGACTGGTGGAGATGGCGAC
GCTCTCTCTGACCGTGAATTCAGGAGACCCCTCCGCTAGGAGCTTTGCTGGCAGTAGAACACGTGAAAGACGATGT
CAGCATTTCGTTGAAGAAGGGGAAAGAGAATATTCTTCATGTTTCTGAAAATGTGATATTCACAGATGTGAATTC
TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTATATGGCTCTAATCTGATGGAACATACTGAGAT
TGATCACTGGTTGGAGTTTCACTGCTACAAAATTATCTTCATGTGATTCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTTATGTGTTGGGCCACCCCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTTATGTGTTGGGCCACCCCT
TCTTGAAGCCCAGCAGGCCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
TAAAGGGAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTGTTGAACTATAATGAA
GTATGCAGAGAAGCTAATTCAGAAGGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TGAGCAGAGGATAGACTCTAAACATAGAAAAAACCTATTGAGAAGAATCTACAAATGTGGGAAGAAAATGAAAAA
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGGCAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
TCCAACCCCTTTATCGCTGCAAAATTCAAACCACATCCAAGAACTGGAAATAAATAACAATGTTTATCCAACATATGA
TTTTCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAATCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCTACGGTTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTTCACTGCTGAACATGGAGTGGGACAAAATCTGGGCGTTTAACAAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAAGAGTGATCCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAAGTTGAATTTGGAAAACAAAGACTACAAGAA
AACCACCTAAGGTCACCTTGGCTTGAGAGACTACACATGCTCTTCTTATCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAGGAGATATTATACAACTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTTCGTGAATTAAGCCAAGAAAGCACCAAAGGAAGATGTAGA
TGCAGCTGTAAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAACCTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTTCGTAAAGCTAAAAGCTGAAAAATCCCTAAGGCTAAAAATAAATGAAGC
TGTAAGATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTCAGCCCCC
ATTATCTCAAAGTTTCGGATTCAAGCCCAACCAGAAATTCCTGAACCTGCTGGTTTAGAAACACCAGAAGCGAAAGT
ACTTTTTGACAAAGTAGCTTCTCAAGGGGAAGTAGTTTCGGAACTTAAACTGAAAAAGCCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAGAAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAAATGATGGCCAAAGGAAAGACCCCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAGAAAGAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAACCTGCTACTT
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCTGCTCTACTAGTGAAACAGTAATGTATCC
TGCATATGCAAAATGGGTACAGTCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGAATGTGGTGCCTTG

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FIGURE 599B

GGAATTCAAGCATCCTCAGCCTTTCCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGAGATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAAAGGAAAAATTTGCAGGAGGAGACTATACAACCTACAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTAGGGCAGAATTTTTCCAAAATGTTTGA
AATCGTTTTTTGAAGATCCAAAGATAACCAGGAGAGAAGCAATTTGCCTATCAAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACCTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAACTTCAAGC
TATTTTGAAGACATCCAGGTCACCCTTTTTACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTTTAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT
ATCATGAACTAATATGGTTTAAAAAAAAAAAAAAAAAAAAAGG

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FIGURE 600

CCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCGTCTGACGCGGAGTTGGGTGGGGTAGAGAGTAGGGGGCGGT
AGTCGGGGGTGGTGGGAGAAGGAGGAGGCGGCAAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAA
TTCCAGGAGGGTGAGCGAGTGCTGTGCTTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATA
AAGGACAAACAAGTGAAATACTTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCGGGAGAGC
AGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAATTCAAAAAGCCAATCAGGAGCAGTATGCA
GAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACG
AAAAAGAACAACAGAAAACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAG
AAAAGGGCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATT
CCTGAATAGCTAAAACCGTGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTTTATCTTCCT
GCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAACACAGATAATAAG
GAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAAGAATACTTCAACGTAATGTTGGGTACCCAGCTACTCTAT
AAATTTGAGAGACCACAGTATGCCGAAATTCCTGCAGATCATCCCGATGCACCCATGTCCCAGGTGTATGGAGCG
CCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGAGAAGAGCCTTGCT
TTATTACTCAATTATCTTCACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGAT
TATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACCTCTCACTCACTTATGTTTGGATCTCC
GTAAACACATTTTTGTTCTTAGTCTATCTCTGTACAAACAATGTGCTTTGAAGATGTTAGTGTATAACAATTGA
TGTTTGTTTTCTGTTTGATTTTAAACAGAGAAAAATAAAAGGGGTAATAGCTCCTTTTTTCTTTCTTTTTTTTT
TCATTTCAAAGTTGCTGCCAGTGTTTTCAATGATGGACAACAGAGGGATATGCTGTAGAGTGTTTTATTGCCTAG
TTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCTTTGACACTATGCACCTTTTATAATACATGTTAATGCT
ATATGACAAAATGCTCTGATTCTAGTGCCAAAGGTTCAATTCAGTGTATATACTGAACACACTCATCCATTTG
TGCTTTTTTTTTTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGGCATCCATGTTGTTACTTAGG
CATTTTATCTTGGCTCAAATTGTTGAAGAATGGTGGCTTGTTTCATGGTTTTTGTATTTGTGTCTAATGCACGTT
TTAACATGATAGATGCAATGCACGTGTGTAGCTAGTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGAT
CTTCAATAAATTTTTTCTTTAAATTTT

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FIGURE 601

GAGGAGGCGGCAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTG
CTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAAATAC
TTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGAC
ACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCT
GCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACGAAAAAGAACAAACAGAAAAACA
CCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAGAAAAGGGCCCGGGTAGATCCT
ACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCCTGAATAGCTAAAACCGTGG
CTTGTTGATGACTGGGACTTAATTACCAGGCATTATGCAAATTACAAGAAATCTCGTGGAACACAGATAATAAG
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FIGURE 602

AATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTTCAT
GGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAAATACTTCATACATTAC
AGTG GTTGAATAAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAG
AAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAG
AAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGA
GAAGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTT
TAGTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCCTCTCACTCACTTA
TGTTTGGATCTCCGTAAACACATTTTTGTTCTTAGTCTATCTCTTGTACAAACAATGTGCTTTGAAGATGTTAGT
GTATAACAATTGATGTTTGTCTTTGATTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTTTCTT

FIGURE 603

TTTTCGCGCTCGGACCTTCGCCAGAGAGGGGCCGGGACATCATGACGGTGGGAGCCAGGCTCCGAAGCAAGCGGGAGA
GCAGCCTCCTGCGCCGCGGGCCCCGAGGGCGAGGGCGAACCGAGGGGGAGCAGGAGGCGCGCCGCCATCCTGGAGC
ACCTGGAGTACGCGGACGAGGCGGAGGCGGCGGCCGAGAGCGGGACGAGCGCGGGCGGACGAGCGGGGCCGGGA
CCCCGGGCGCGCGGAGGGTGCACCTTCGCCCTCCTGCCCCGAGCGCTACGAGCCACTGGAGGAGCGCGGCCGAGCG
AGCAGCCCAGGAAGAGGTACCGGAGGAAGCTGAAGAAGTACGGCAAGAATGTGCGGAAGGTCATCATCAAAGGAT
GCCGCTACGTGGTTCATCGGCCTGCAAGGCTTCGCTGCAGCCTACTCCGCCCCGTTTTCGGGTAGCCACCAGCGTGG
TATCCTTCGTGCGCTAATGGGAGCTGCTGTGGCAGGTGCCCCAGAGTGAACGGGAGCCCCCTGCTGTGGGAAC
TGTGAATCCTGGAGCATCTCAGACTTGAACACACAGCATATTTGGAAGAGAAAACATGCCTTTCTTTGTTGAATC
ACATTAGTATGATGAGTGAGTCATCCCTGCCCATCTGCTGAGCTTCTCACATCTCTCAGTCACACGTGGACCCAG
TGGTCAATCCTGCAGAGAATTTCGGCGGAGGTTAGGTTTTGGGAGTGGAGCTAGCGTGCTAAAGCCAGAGCCTTAC
GTGAAGGTGGCAGGCACTGGGGCGGAAGCCAACTCAACAGATGCAAGCAGTGTGGGTGTGCAGCAGAACAGTG
ATCTTGGGGGAGGAAGAGGATGTTACTAGAGTCAGATGATTTGCTGTATTCTCCTGAAAGGTCGTAGGCTGCAG
GCGCTCACATTCCCTTGGCTGCCTCGGTTCTGAGGGCAGCTAAGGAGCTGTTTATTCTCAAGTCATGCTCCCCGA
TCTCCTTCCCTTACCACCTCTGTACCAGGAGTTTAAATTACAGGCTTGAGGAGAAGAAAGGAAGAAAAGATATCTT
GATGCTTTGAAAACCTGTGTTGGCAGTGTGGCATGACTGTTTAAAGTAGATAAAACCTTGTCATTTTACCCCATCC
CTGCATGACTGTGAAGCTGGCGAGGAAGGAGGAAGAAGGGCAAGTTCAGATGCAGGCTGGGTGGCTGGGACAGGT
TGGCTAAGGGACTACTCTGGAGGGCTCTTCTGCCTGGCATTGCCACTTCGGCCCAGCCACGTGTTTGACGCGAC
CAGAGTCCCTGCAAAGGTGTGGCTGGCTGTGGTCAAGGCTGCTACTAGCACCATCAGCGCACTCCCGCCATTGGCT
CAGCTCCTCTCTGCCAGTCCAACCTAAGAGTGCTTTGTCTGGGTGGGACATAGGGGCTGAGAGAGATGGGGGGAG
ACATAACACCCAGGAATGAAAATACAGATTTAGAGAAGGAACCAGTAAGTAGGAGACAGATGTGAAGGAAATGGA
AATGAGGCAAGAGGACATTGGAAGAGAGAAGTTTGTCTGTCCAGGAGCCAGCTGAGGAGCATCAGTGTGAGGGAGT
TCAGGTAGGCTGGGCCTGTGCCCTCTAGGTAGGGACAAGGGAGGCTGGGTAGCCAGGGCTGGTGCTTAAACCCCT
GAGGCCATGAGCTCATTGGCTGCCCTTGTAGCATCCTGTCTTCTCTGTGCTGCCTGGTTGATCTCATCTCACC
TGGATTCAAAGGGTAAGGTGGGCATGGGTCTTGGGCCTGCACCCACCAAGGATGACCTGGTTGATCTCATCTCACC
TGCTGAACAGGGAGATGAAAGGAGGTCTCTTACCATAACCCTCTGCCAACCCCCAGTAGGCCACTGTTCTGAC
TTTGTTTCCAGAATATCCAGAAATCCAAAGGGGCTGTTGCTGAACAGTCTGCAGGACCAGTGACAGCACCTACCT
GTTGTCCCAAGGCATACAAAGGAGGCCTCAACGCTCATGCTTCTCTAATCAAGCCCTACCAAGACAGACAGAAAG
ACAGACAGAAAAAAGGAAGGGGTAGAGGAGAAGGTTGAAGCTGTGGAGCTAGACTCTGCTTCACTTCTCTGAAGCT
TCAACTTCATGTGCAAGATTCACTGGGACCCAATTCCCTGCATTGTTAATATTTGTGAGGAAAAGTGAAACAAGTG
ATCTGGTTTTTAGCCAGATGATGAAAGTGGATATGGCACATTTTACACACGTGAGATAATTACAGCTTGCCCCA
CAACACTGGGTGTTGGAGAAAGGGAGAGATAGTCATAAGTGGAAGAAAAGCCAAGCATAGTGAGTGGGAAGGAG
AGTGAGAGCCTGTGCAGGCTGCTGACGAGCCCCAGGCAGCCACAAAGTTTCTCGTGGGGAGATGGAGGCAGAGCC
CAGGGTAGGGGACAGAGCTGCTGGGGCCTTTCCTTGCTGGGAATCTGTCCCAGGAAGAGCTTCCCCACTCCCAT
CCCCCAAATTGGA AAAACCGTACATTCAAGCCTGTTTGGCCCTGAAATTCTTAAGAATCTGGTTAAGAATTAAC
CACTAATGTCAAAAGTCAAAACCTCCTAGGGGTTGTCTGGGAGTCAGGTTACGGGTACAGAAGATGAATCTCA
GATGTCACTCAACCTGAGCCGTCATTCTCTGTGGCAGGGCTGCCCTGGGTTTCTCTTACTCAATCCCTGGAGTGT
AAGCATTTGGATTGTGTACAGATTACCTTTTTACCTTTTTCTTTCTTTTTTTTTCTTTTTTCAATATCAGTGCC
CACACCTTACTGAGTATTGAGTTTTAGAGCTTTCGCTTGATGTGCTTGACCAAGAGACTTCTTTTGTATCCTTTT
CTTGTCTATGATGTAAATAAAAGCCTCGATTTATGT

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FIGURE 604

MTVGARLRSKAESSLLRRGPRGRGRTEGDEEAAAILEHLEYADEAEAAAESGTSAADERGPGTRGARRVHFALLP
ERYEPLLEPPAPSEQPRKRYRRKLKKYGKNVGKVI IKGCRYVVIGLQGFAAAYSAPFAVATSVVSFVR

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FIGURE 605

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACATGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTATTATATATTACAGTGTAATAATGGAAATA
AAGCACCTAATAAATGTAAATGTGCTTAAATCTTTTGTCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCAGTTC
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCTCCAGGCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCAGCATCTGCCTCACTGTGGACCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCTGCAGCCTCTCCAGGCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTCAGCCCAGCCCAGCTCATGCCTCCTGGCGGCCTTCCCAGGCCCTGCTTTTGA
CTTTTGGTGGCCTCTGCAGGCCTCGACAAGGCCCGGCCTCCTGCCTCCCGAA

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FIGURE 606

GGCACGAGGGCTCTGTGGAGCTGCGCCTGCCAACTCATTGCTTTCTGCTGTGCTGTGATCCTGCAGTCAGTTGCC
GCTGTTGCTACTGCAATCATTTCACCAAACCTGAGCCAGAGAAGTTCCCTCTTTTAACATAAAGAGTCAAGAAAT
TGGAGCATGGCTATGAGCAATGGAAACAATGATTTTGTGGTTCTGAGCAACAGCAGCATCGCAACCAGTGCTGCT
AACCCGAGTCCCCCTCACCCCCTGTGATGGAGACCATGCAGCCAGCAGCTCACACCCAAAGAAGCAACAAGAACA
AAAGTGAGTCCAAATGGATGCCTGCAACTTAATGGCACGGTCAAATCATCCTTTCTGCCTTTAGACAACCAAAGA
ATGCCTCAGATGTTACCCCAATGCTGCCATCCTTGCCCATACCATCACCCCTTGACTAGCCATAGCAGTCACCAA
GAGTGCCATCCCGAGGCTGGCCCTGCAGCACCCCTCTGCTTTGGCCTCGTGTTGCATGCAGCCACACTCCGAGTAT
TCTGCATCTCTTTGTCCAAATCATTACCTGTGTATCAGACTACGTGCTGTCTTCAGCCCTCTCCATCCTTCTGC
CTGCATCATCCGTGGCCTGACCATTTTCAGCATCAGCCTGTGCAACAGCACATAGCCAACATAAGACCATCCAGA
CCTTTCAAGTTGCCAAAAAGTTATGCAGCCCTGATAGCCGACTGGCCGGTGGTGGTCTTGGGCATGTGCACCATG
TTCATCGTAGTCTGTGCCTTGGTTGGAGTATTAGTGCCAGAGCTCCCTGACTTCTCTGATCCATTGCTGGGTTTT
GAACCAAGAGGAACAGCAATAGGCCAGAGATTGGTCACATGGAATAATATGGTGAAAAATACAGGATACAAAGCA
ACATTAGCAAATTATCCCTTTAAATATGCAGATGAACAAGCCAAAAGCCATCGGGATGATAGATGGTCAGATGAT
CATTATGAAAGAGAGAAAAGAGAAGTTGACTGGAACCTCCACAAGGACAGCTTTTTCTGCGACGTTCCAAGTGAC
CGATATTCCAGAGTGGTATTTACTTCATCTGGAGGGGAGACATTATGGAATTTACCTGCAATTAAATCAATGTGC
AATGTAGATAAATCCAGGATCAGATCTCATCCCCAGTTTGGTGATCTCTGCCAGAGGACCACTGCTGCCTCCTGC
TGCCCCAGCTGGACACTGGGAAACTACATCGCCATTCTGAACAATAGATCGTCCTGTGCAAAAATAGTTGAGCGA
GACGTTTCTCATACCTTGAAGCTGCTTCGGACTTGTGCCAAACACTACCAAAATGGCACTCTGGGGCCAGACTGC
TGGGACATGGCAGCCAGAAGAAAGGACCAGCTCAAGTGACCAATGTGCCACGCAAATGTACCAAGTACAATGCT
GTGTACCAGATCCTCCATTACTTGGTGGACAAAGACTTTATGACCCCAAAGACGGCTGACTATGCCACGCCAGCT
TTAAAATACAGCATGCTCTTCTCTCCACAGAGAAAGGGGAGAGCATGATGAACATTTACTTGGACAACCTTTGAA
AACTGGAACCTCTTCTGACGGCGTGACTACCATCACCGGGATTGAGTTTGGTATCAAACACAGTTTGTTCAGGAT
TATCTTCTAATGGATACTGTGTATCCTGCCATAGCCATTGTGATTGTCCTTTTAGTTATGTGTGTCTACACCAAG
TCCATGTTTATCACTCTGATGACAATGTTTGCAATAATCAGTTCTTTGATTGTTTCCTTAAAAAAAAAAAAAAAAAA

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FIGURE 607

MAMSNNGNDFVVLNSSSIATSAANPSPLTPCDGDHAAQQLTPKEATRTKVSPNGCLQLNGTVKSSFLPLDNQRM
QMLPQCCHPCPYHHPLTSHSSHQECHPEAGPAAPSALASCCMQPHSEYSASLCPNHSPVYQTTCCCLQSPSPFCLH
HPWPDHFQHQPVQQHIANIRPSRPFKLPKSYAALIADWPVVVLGMCTMFIVVCALVGVLVPELPDFSDPLLGFEP
RGTAIGQRLVTWNNMVKNTGYKATLANYPFKYADEQAKSHRDDRWSDDHYEREKREVDWNFHKDSFFCDVP
SDRYSRVVFTSSGGETLWNLPAIKSMCNVDNSRIRSHPQFGDLCQRTTAASCCPSWTLGNYIAILNNRSSCQKIVERDV
SHTLKLLRTCAKHYQNGTLGPDWCWMAARRKDQLKCTNVPRKCTKYNAVYQILHYLVDKDFMTPKTADYATPALK
YSMLFSPTEKGESMMNIYLDNFENWNSSDGVTTITGIEFGIKHSLFQDYLLMDTVYPAIAIVIVLLVMCVYTKSM
FITLMTMFAISSLIVS

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FIGURE 608

GCTTCCGCTCGGCTCCTCTTCCTGCCGGCATCCGGGATCCCTACGTCCCGCGTCCCCCGAGCGCTCGGAGCCTA
CGCGCCCAGCGCTACCGAAACCCAGAGTCCCTGCGCCCTGGAGTCCCCGCGCCCCGGAGCCCCGAGCACC CGGGAGT
CCCCAGCCTCGCGCCCCGGAGTGCCCGAGCCTGCGCCGCCGCACCCGATACCCCGGGTCCCCGCGAGCTGCCGA
GGCCGCCCCGCGCCCGCCCCGCGGACAGTACCGCCTTCTCCCTCTGTCCGCGCCATGGCCGCCCCGACCTGTC
CACCAACCTCCAGGAGGAGGCCACCTGCGCCATCTGCCTCGACTACTTCACGGATCCGGTGATGACCGACTGCGG
CCACAACCTTCTGCCGCGAGTGCAATCCGGCGCTGTCTGGGGCCAGCCCCGAGGCCGTACGCGTGCCCCGAGTGCCGC
GAGCTGTCCCCGAGAGGAACCTGCGGCCCAACCGCCCGCTTGCTAAGATGGCCGAGATGGCGCGGCGCCTGCAC
CCGCCGTGCGCGGTCCCGCAGGCGTGTGCCCGCGCACCGCGAGCCACTGGCCGCCTTCTGTGGCGACGAGCTGCG
CCTCCTGTGTGCGCCTGCGAGCGCTCTGGGGAGCACTGGGCGCACCCGCGTTGGCCGCTGCAGGACGCGGCCGAA
GACCTCAAGGCGAAGCTGGAGAAGTCACTGGAGCATCTCCGGAAGCAGATGCAGGATGCGTTGCTGTTCCAAGCC
CAGGCGGATGAGACCTGCGTCTTGTGGCAGAAGATGGTGGAGAGCAGCGGCAGAACGCTGCTGCGTGAGTTCGAGC
GTCTTCGCCGTTTTGCTGGCAGAGGGAGGGACAGCAGCTGCTGCAGAGGCTGGAGAGGAGGAGCTGAAGGTGCTGC
CCCCGCTGCGGGAGGCGCAGCCCACCTAGGCCAGCAGAGCGCCACCTAGCTGAGCTCATCGCCGAGCTCGAGAG
GCCGCTGCCAGCTGCCTGCGCTGGGGCTGCTGCAGGACATCAAGGACGCCCTGCGCAGGGTCCAGGATGTGAAGC
TGCAGCCCCCAGAAGTTGTGCCTATGGAGCTGAGGACCGTGTGCAGGGTCCCGGGACTGGTAGAGACACTGCGGA
GGTTTCGAGGGGACGTGACCTTGGACCCGGACACCGCCAACCCCTGAGCTGATCCTGTCTGAAGACAGGCGGAGCG
TGCAGCGGGGGACCTACGGCAGGCCCTGCCGGACAGCCCAGAGCGCTTTGACCCCGGGCCCCCTGCGTGCTGGGCC
AGGAGCGCTTACCTCAGGCCGCCACTACTGGGAGGTGGAGGTGGGGACCGCACCAGCTGGGCCCTGGGGGTGT
GCAGGGAGAACGTGAACAGGAAGGAGAAGGGCGAGCTGTCCGCGGGCAACGGCTTCTGGATCCTGGTCTTCCTGG
GGAGCTATTACAATTCTTCGGAACGGGCCCTTGGCTCCACTCCGGGACCCACCCAGGCGCGTGGGGATCTTTCTGG
ACTACGAGGCTGGACATCTCTCTTTCTACAGTGCCACCGATGGGTCACTGCTATTTCATCTTTCCCGAGATCCCCT
TCTCGGGGACGCTGCGGCCCTCTTCTCACCCCTGTCCAGCAGCCCCGACCCCGATGACTATCTGCCGGCCGAAAG
GTGGGTCCGGGGACACCCTGGCTCCCCAGTGACTCGGGGCCCTCCTGGAGGAGTCTGTTCCTCTCCTGCCCTC
CAGGCCACTGAGTGTTTTGGCCACTTGGAGGACCTGGGAGGAGGGAGTGTGTCTTTGAGCAAGAGGAGGAACTC
CTGGTGCCTTTTCTGAGCCTGCGTGGGAGAACCCCAATTCTAGCACTCCAGGAACTGTGGGAGAGTGTGGGGCAG
GCTCCGTCCTCCCTGGGAGACCCCTCCAGCCACCGGGTGCCACTTAATGCCAACAGCCCTTACCAAAGCTGGGAG
CCCCATTGCCCGGCAGCTCTGGCCTGTGGTTCCAGAAGCTGAGAAACTCCACTGGGGCTTGCAGAATCCAGGG
TTCACCTAAGCTGCACAGTTCTCTGCAGCTTTGTGACCCCCCTGAAAGTCTTGTGTACCCACCTCTGAAGATGCT
GGGGAAGGCAGCTGGGATGGGAGCCAGCCCCATGCCTGTCTGTGACCCACAGTGGGTGAGAGCCCGTCACAGTC
CTGGGTGTGGCTGCTCTGGAAGAATTAGGAGGCAGCCATAATAAGAGTCTTCAGAGAGATGATGGGAGGGGCCAG
TGAGGACAGGAACAGAGAGTAGATGTCTATAATAAAGGGGCTTCTGGGAGGTGCCTGGGCACAGATGTCTGTTT
AGCAGGTGTGTGGGCCTAGAGGAGAGAGCAGAGCCAGAAATGTCTTTTGCAGGCCACGTTCTGACTTGAAGCT
TTCGTGGGCATGTTGCCATTGGGTTTTGCCCTTGCAAAGGCTTCTTAGGTCTCCAGTGGCCCCCTCAGGACCCAGG
GTCCAGCTGCTGCTTGGGGATGTGCACTGCTGCGCCGGCCTGCAGTCTCTCTACCCTGGGGAGGAACAGTGGC
TTCTCAGAGCCTGGGGCATAACAGAAGAAGGCAGGAGTTGATTTTTGTGTTGGGTTTGGGGTTTCTTTGTCTCAA
GGTACTGTTCTGTTTCTCTTTACCCCTCTGCTTTATTTATTGTAAGCATTCCACGTTAAATAAACTTTGGCTGT
TGTCTAC

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FIGURE 609

MELRTVCRVPGLVETLRRFRGDVTLDPDTANPELILSEDRRSVQRGDLRQALPDSPERFDPGPCVLGQERFTSGR
HYWEVEVGDA PAGPWGCAGRT

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FIGURE 610

CCGCAGGCAGTAGAGTGAAGCGCGCAGCTGCCAGGACTTGCGCGGTGACGTGCGCCGCTGCCAGGACCTTGCAGG
TGGAGAGCATAGTTGCCAAAATCAAGGCGGAGGAGCGCACCGCCGCTAGGATCCAGGCGGAGAAGCCCACCGCGG
CCAGGACCTAAGGATGCAGTACACTGCTGCCAGGATCTTGTCTGTGGAGCGCAGCGCGGCCAGGACCTCCGGCTG
CAGCACACCGCTGCCAGGATCTTATCGGCAGAGCGCTCCGCGGTCCGGACCCCGCCCGTGC CGCTCCCGACCC
CGCCCCGTGCGCGTCCCCGGCGTTGGCGTCTTCGTCTGTTGCTGGTCTCCGTCCGGTCCGCCGGCCGTCTAGGTC
TCCGGCCCTCCCCAGCCGCTCCTGCGCCCTTGCCGGCCCCGCCGCCGCGAGCCCTGGCGCTCCCTGCGGGCCCCG
CCGAGGCCCGCTGCGCCCTGTGCCAGCGCGCGCCCCGGGAACCGGTGCGCGCCGACTGCGGCCACCGCTTCTGTG
GGCGTGCCTGGTGCCTTCTGGGCCGAGGAGGACGGGCCCTTCCCGTGCCTCGAGTGCCTCGGACGACTGCTGGC
AGCGCGCCGTGGAGCCCGGCAGGCCCCGCTCAGCCGCCGCTTCTGGCGCTCGAGGAGGCGGCCGCGGCCGCCG
CGCGCGACGGCCCCGCCAGCGAGGCCGCGCTGCAGCTGCTGTGCCGCGCCGACGCCGGCCCGCTCTGCGCCGCCT
GCCGTATGGCTGCGGGCCCCGAGCCGCCGAGTGGGAACCGCGCTGGAGGAAGGCGCTGCGCGGCAAGGAGAACA
AGGGGTCTGTGGAATCATGAGAAAGGACTTGAAATGACGCCCGGGACCTGCATGGCCAGGCAGAGTCAGCAGCTG
CAGTGTGGAAGGGACACGTGATGGACCGTAGGAAGAAGGCACTGACCGACTACAAGAAGCTGCGGGCCTTCTTTG
TGGAGGAGGAGGAGCATTTCCTGCAGGAGGCTGAGAAGGAGGAGGGGCTCCCTGAGGACGAGCTGGCTGACCCCA
CTGAGCGGTTACAGTCACTGCTGCAGGCGGTCTCGGAGCTGGAGAAGAAGCATCGCAACCTGGGCCTCAGCATGC
TGCTGCAGTGATGGCGCCAACCCGTGGCAGTCCCAGAGCTGGAGGCAGGAGGATGGATCCTCATCTCCATGGGAA
GTGTCAGCGTGTGGCTGCCAGGGAAGCGTGGCAGGCGCCTGGCCTTGGGTCCATCTACATAGTTGCGTGTTCAC
CAATGTCCATTTATCCTTACCCCGAGGCGTGTTCGGGGGCTGCAACACCTCCCTGTGCTCCACCTGCCTCCG
CAGAAGGAAGCCTCTTCTCTGTTTCCCTGGGTGAGGGGGCTGGCAGGTGGCTAACCCCATTTAGCATCTCCAGG
CCCTGCCATCGTGTCTCATCTTGCTGTTATCTCTAGCTCTTTCCTCCTCCCATTTCTTTAGTAGTTGAATTTT
GCAAAGCTTGTAGCAGTAGCTCAGTTGCCTGCAGCATCCTTGTGTGTAGATAAATTAGTCGACAGAAACTCAGCA
CTGGGGACAGGATTGCAAAGTCGGGGACATAGATGCAGACAGTTGTTGAGATTGGGGATAGCCGGGCTTGTGAG
CGGTGCCCATTTCCAGATGAAGCCTTTCAGCCCTTCTGAGTCCCCGGCCCTTGGTGCGATGTCTGTGAGTTTGAC
CTGCCCAGCGTGTGGGCTGGCTCAATGCTGAATAAAGTGGGTTTGTGTGAGCTCGTTTGCTTCGTCTCCGTGTGT
CCACCTGGCCTCTTCCCCCTGCCCTGGCCACCCTCCAGTGTCAAAGGAACTTCCTCGTGACACGTGCTAAAGCA
TGGTGAGGAGGACTTTGATTGGGACCATTGAGATGGGTGTGGGACCTTTCCTTGGGGCCTGGGGGGAGATGGGG
CTCCACCCCGACGTAGCAGGGCAGGGGTTGGAGGAGCGAGGAGCAGTATAGGGTCCATGGGTGGGAATGACTGTG
AGGAGACATCAGGGCTGAGGGGGCTCTGGCTAAACCCACCTCACAGAGTCCTTGCTGCAGGCAGGCAGGGCGATC
AGA

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FIGURE 611

MQYTAARILSVERSAARTSGCSTPLPGSYRQSAPRSGPRPVRVPDPAPCASPALASSSCCWSPSGRRPSRSPALP
SRSCALAGPAARSPGAPCGPRRGRLRPVPARAPGTGARRLRPPLLSGVRGALLGRGGRALPVPVRVRRLLAARRG
ARQAPAQPPPSGARGGGRGARARRPGQRGAAAAVPRRRRPALRRLPYGCGPRAARVGTALEEGAARQGEQGVCG
NHEKGLE

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FIGURE 612

GGCACGAGGCGCTGGCCGGGCTGGCTGCGGCCGCCCTGGGCCGGGCCCCACCGGACGGCTTGCTCTGCTCTTTAC
CTGGGGTTGCTGTGCGAGGACCTGTGCAAGACTCGGCCGGTTTTTCTTTCTCCCTGATGGACAGACCCAAACATA
GCCGCGCAGCATCGTGAAGGGCTGGGGCCTTCACTCCTCTGTGGCTCTGGAAGAGCCCGATTTCTCAGGAGGCA
TGTCGGGCCCCAGGCCTGTGGTGTGCTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCCCTGCTGAAGAGGCTGCTCC
AGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACCACGAGGAACCCGAGGCCCGGCGAGGAGAACGGCA
AAGATTACTACTTTGTAACCAGGGAGGTGATGCAGCGTGACATAGCAGCCGGCGACTTCATCGAGCATGCCGAGT
TCTCGGGGAACCTGTATGGCAGAGCAAGGTGGCGGTGCAGGCCGTGCAGGCCATGAACCGCATCTGTGTGCTGG
ACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTGCGGCCCATCTACATCTCTGTGCAGCCGCCTT
CACTGCACGTGCTGGAGCAGCGGCTGCGGCAGCGCAACACTGAAACCGAGGAGAGCCTGGTGAAGCGGCTGGCTG
CTGCCCAGGCCGACATGGAGAGCAGCAAGGAGCCCGGCCTGTTTGATGTGGTCATCATTAAACGACAGCCTGGACC
AGGCCTACGCAGAGCTGAAGGAGGCGCTCTCTGAGGAAATCAAGAAAGCTCAAAGGACCGGCGCCTTGAGGCTTGC
TGTCTGTTCTCGGCACCCCGGGCCCATACAGGACCAGGGCAGCAGCATTGAGCCACCCCTTGGCAGGCGATACG
GCAGCTCTGTGCCCTTGGCCAGCATGTGGAGTGGAGGAGATGCTGCCCCTGTGGTTGGAACATCCTGGGGTGACC
CCCGACCCAGCCTCGCTGGGCTGTCCCCTGTCCCTATCTCTCACTCTGGACCCAGGGCTGACATCCTAATAAAAT
AACTGTTGGATTAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 613

MSGPRPVVLSGPGAGKSTLLKRLQEHSGIFGFSVSHTRNPRPGEENGKDYYFVTREVMQORDIAAGDFIEHAE
FSGNLYGTSKVAVQAVQAMNRCVLDVDLQGVNRNIKATDLRPIYISVQPPSLHVLEQRLRQRNTETEEESLVKRLA
AAQADMESSEKPGLEFDVVIINDSLDQAYAELEALSEEIKKAQRTGA

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FIGURE 614

GGCACGAGGTCGGGCCTGGGTCCGACGGTAGTGGGTAGCGGGTCTCGGGTTGCGGGTTGCAGGTTGCAAGCCGCA
GGCCCCAGGCAACTGCCTTCCCGGCGCCATGTTTCGGCTCCAGTCGTGGAGGCGTGC GCGGGCGGGCAGGACCAGTT
CAACTGGGAGGACGTGAAGACTGACAAGCAGCGGGAGAAGTACCTGGGCAACTCGCTGATGGCGCCGGTAGGCCG
CTGGCAGAAGGGCCGCGACCTCACCTGGTACGCCAAGGGCCGGGCGCCATGCGCGGGCCCCGAGCCGCGAGGAGGA
ACTGGCAGCCGTGCGGGAGGCGGAGCGCGAGGCGCTGCTGGCCGCCCTTGGCTACAAGAACGTGAAGAAGCAGCC
CACGGGCCTGAGCAAGGAGGACTTCGCGGAGGTCTGCAAGCGGAAGGAGGCGACCCCGAGGAGAAGGGCGTGGA
CCGGCTGCTGGGGCTGGGGAGCGCAAGTGGCTCCGTGGGCGCGTGGCGATGTCCCGAGAGGACAAGGAGGCCGC
CAAACCTGGGGCTGTCTGTGTTACGCATCACCGCGTAGAGAGCGGCGGGCCCCGGGACCTCGGCAGCCTCGGCCAG
GAGGAAGCCGCGGGCGGAGGATCAGACGGAAGCAGTTGTGAGAGCCACAGGAAAAGCAAGAAGGAGAAGAAGAA
AAAGAAAAAGAGGAAACACAAGAAAGAGAAGAAGAAGAAAGACAAAGAGCACAGGCGGCCAGCTGAGGCCACCTC
CTCTCCACATCTCCTGAGAGGCCCAGGCACCACCACCATGACTCCGACTCCAACCTCCCCCTGCTGTAAGAGGAG
GAAGCGGGGACACAGTGGGGACAGGAGGAGCCCGTCTCGCAGGTGGCATGACAGAGGCTCTGAGGCCTGATGGCT
GGACCCTGCTCACTGCTGTTGTGGGACCCTGAACCCTCCCTTACCTTGCTTGCTCCTGCTCGGAAGCTCCTT
GGGTGTGGGTGAAGCCCGAGGCTGCTCCTGTGGAAGTGGCTCTGGGCACCAGCCTGTGGGGCTAAAGACTTGACA
GCTAGCTCTGGAGCAGCCGGCTTCCCTGGAAAACCTCCAGGTTTCGCATACCAGGGATGGCCCCCTGGCTTGGCCTG
CGAAGGTGAACCTGCCCAGATTTATCAGTAGAGGCTGGACTCCCTCTGTGTCCTGCCCATGGTTGCAGCAGCCAT
GGGCCTATGAGCGGTCTAACTGTGGCCAAGTATGGTGACCTCTATTTTTCTTTATATTGACTCTTTGTATTTCAA
TAAATATATTTTAAAAGGAAGGTAAAAA

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FIGURE 615

MFGSSRGGVRRGGQDQFNWEDVKTDKQRENYLGNSLMAPVGRWQKGRDLTWYAKGRAPCAGPSREEELAAVREAER
EALLAALGYKNVKKQPTGLSKEDFAEVCKREGGDPEEKGVDRLLGLGSASGSVGRVAMSREDKEAAKLGLSVFTH
HRVESGGPGTSAASARRKPRAEDQTESSCESHRKSKKEKKKKKKRKHKKKEKKKKDKEHRRPAEATSSPTSPERPR
HHHHDSDSNSPCCKRRKRGHSGDRRSPSRRWHDRGSEA

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FIGURE 616

AGGAAGCCCTGCTTGATGAGCATGAGGCTCCACGGGGCAGTGGCTGTGACGGTGAGTGCCACACAGAGCTGCCC
ACACTGGTGGAGGGAAGGCAGGGAGATACCAGGACCATCCGGAAGGGGCTGAGTGTCAATTTGACAGGTGCCATGT
GAGCAGAGATGTGAAGGAGTGGCCCGGGACAATCAGGGCAGAATCCCTGAGGTGTCCCTGGCCAGTGTCTTTCCA
CCTGTCCACAAGCATGGGGAACATCTTCGCCAACCTCTTCAAGGGCCTTTTTGGCAAAAAGAAATGCGCATCCT
CATGGTGGGCCTGGATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCAT
TCCCACCATAGGCTTCAACGTGGAAACCGTGGAGTACAAGAACATCAGCTTCACTGTGTGGGACGTGGGTGGCCA
GGACAAGATCCGGCCCCCTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGA
CAGAGAGCGTGTGAACGAGGCCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTT
CCTGGTGTTCGCCAACAAAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCA
CTCACTACGCCACAGGAACTGGTACATTACAGCCACCTGCGCCACCAGCGGGCAGCGGGCTCTATGAAGGACTGGA
CTGGCTGTCCAATCAGCTCCGGAACCAGAAGTGAACGCGACCCCCCTCCCTCTCACTCCTCTTGCCCTCTGCTTT
ACTCTCATGTGGCAAACGTGCGGCTCGTGGTGTGAGTGCCAGAAGCTGCCTCCGTGGTTTGGTCACCGTGTGCAT
CGCACCGTGTGTAAATGTGGCAGACGCAGCCTGCGGCCAGGCTTTTTATTTAATGTAAATAGTTTTTGTTCCTA
ATGAGGCAGTTTCTGGTACTCCTATGCAATATTACTCAGCTTTTTTTTATTGTAAAAAGAAAAATCAACTCACTGT
TCAGTGCTGAGAGGGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTCGCTGTGTGGGAGAGCCGGCCACGC
CCTTGGCTTTAGAGCTGTGTGAAATCCATTTTGGTGGTTGGTTTTTAACCCAAACTCAGTGCAATTTTTTAAAT
AGTTAAGAATCCAAGTCGAGAACACTTGAACACACAGAAGGGAGACCCCGCCTAGCATAGATTTCAGTTACGGC
CTGGATGCCAGTCGCCAGCCCAGCTGTTCCCCTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCGATCAAT
TCTGCATGGTTCACAGTAGAGATCCCCGCAACTCGCTTGTCTTGGGTACCCCTGCATTCCATAGCCATGTGCTTG
TCCCTGTGCTCCACGGTTCCCAGGGGCCAGGCTGGGAGCCACAGCCACCCCACTATGCCGAGGCCGCCCTAC
CCACCTTCAGGCAGCCTATGGGACGCAGGGCCCCATCTGTCCCTCGGTGCGCGTGTGGCCAGAGTGGGTCCGTG
TCCCCAACACTCGTGCTCGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGCAAGCCG
GGCAGGCGGTCCACCTAGACCCACAGCCCCTCGGGAGCACCCACCTCTGTGTGTGATGTAGCTTTCTCTCCCTC
AGCCTGCAAGGGTCCGATTTGCCATCGAAAAAGACAACCTCTACTTTTTTCTTTGTATTTTGATAAACACTGAA
GCTGGAGCTGTAAATTTATCTTGGGGAACCTCAGAACTGGTCTATTTGGTGTGCTGGAACCTCTTACTGCTTT
CAATACACGATTAGTAATCAACTGTTTTGTATACTTGTTCAGTTTTTCATTCGACAAACAAGCACTGTAATTA
TAGCTATTAGAATAAAATCTCTTAACCTATT

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FIGURE 617

MGNIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSNDRERVNEAREELMRMLAEDELRAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLSNQLRNQK

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FIGURE 618A

GTGGGACCATCCAGTTGCAGGAAAAACAAGCTTAACACGCCCACTGATTCTACATTATGCTCCTACCTCCCAGCAG
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC
CATACCCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCCA
GCCTCTGCCTCCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC
ACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCCAGCAGCTTCTACACACCCAACCTCCTGCCACCCAGTGGCCT
CTTTAGGCCAAGCTCATGCTTCAACAAGGCCCTTTCCAGGCTCAACTTTTGTCTCATGGCAACCTTTTCTGGCCAG
ATTCTGCTGTCTCTCCAGCAGCCTAGACAGGCCCAGGCTTGTGCCTCACACTGGCCTCTCTACATCCAGCTCATG
CCTCACGGTGGCCTCTCCAGGCCCCAAGCTCCTGTCTCCAGGACGTCTATCTCCGGGCCCCAACTTACTCAAGTCAGA
CTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTGGACCTCTCCAGGCCC
AGCTCCTGCCTCCTGTCTAGCGTCTACAGGCCCCAAGCTCTGCCTCATGGGGGCTTCTCCAGGCCCCACCTCTTCCTC
TTGGCTGGGTCTACAGGCACAAGTGTGCTCACAACAGCCTTTTTTGGCCCCAGTTTCTGTCCAGCTCATGGCGG
CCAATGTAGGCCCAAACTTCTCTCAAGTCAAACCTCTCCAGGCCCCACCTTCTGCTTCCCGGTGGCATGAACAGGCC
CAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGGCTTTTTTCCAGACCCAGCTCCTGC
CTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCCTCCCTCACAG
TGGCCCATTTAGGCCCAACTCATGACTGTCTGGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAA
GCCCAAACTTCTCTCAAAATCAGCCTTTTGGCCAACTTCTGTCTACTGTCTGGACTCTACAGGCCAGCCTCTGCCTC
ACAGTGGACCCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTC
TACAGGCCCAGCTCCTGCCTTGCAGTGGCCTCTTTAGGCCAAGCTCATGCCCCATGGCGACTTTTCCAGGCACAG
CTTTTGCCTTTTGCAGCCTGTCTGAGGCCCAGAATGTCTTAACTCGGCATCTCCAGGATGAGCTCATCTCTCCAG
TGCGTCTACAGGCCCCGTCTCCTGCCTCACAAACCTCCTTTGGCCCCAAGCTCCTGCTGAGCTGCTGGCAGCCTCT
GTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCCCACCTTTGGCCTCCCGGCAGGCTCAGCAATCAAATA
TTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCAGGCATCCTCCGAAACTGAGCATTGTGCTC
ACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCCAGGCAGCTGCTGCCTCACAAATGGTCTCTTTAGGCCCA
GCTCATGTCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGCCCAATTTCTCCAA
AGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTCTGCCTACACAGGCCCAGACTCTTACCACACAGTAGACCC
TCCAGGCCCCACCACTTGCCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGCAGCCTCTACAGGCCAAG
CTCCTGCCTCGCAATTGCCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCCTAACTTTTGTCTTT
TGACGCATACTCCAGTCCCAAACTTCTCCTCAGTCAGCCGGTCCAGGCCAAGCTCTTCTCCCAAGGCTTCTGC
AGGCCAAAATCATCCTGAAGTCACCCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATG
CCTCACAGCACACTTTCCAGGCTGAGCATTCTCTTTTGTGCATCCTCTCCAAGCCCTGAACTTACTCCAGTTGGC
CTCTCCAGACCAAGCTCTCCTCCAGTGGCCTCTACAGGCCAAAATTGTCTCAGGTGAGCCTCTCCAGGGCCA
ACTCCTAGCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGCCTCT
GAGTGGCCTCTCCAGGAGCAAACTTTCTCAAGTCGGCCTCTCCAGGCCCAGCCTCCTGCTTCCCGAGGGCATGT
ACAGGCCCAGCCTCTGCCTCACAGCAGACTCTTACACCCAGCTCTTCCCTGTCTGCGGCCCTCTCCAGTCCAAAG
CTGCTCCTGCCTTTTGGCAGCTGTACAGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTCCGGCCCCAAGCTCATGCC
TCTTGCAACGTGCCCAAGTGTCTAGCTCCTGCCTCACACTGGCCTGTTAGGCCCAGCTCATGCCCTCTCGTGGCCT
CAACGGGCCCCATCCCTGCCTGTCTGGCGGCCCTCTACAGGCCCGGCCCTCTACCTCACAGTGGGCTCTCCAGGCCCA
CCTCTTCTCACCGTGGCCTCCTGGGGCAATGCTCCTCCCTCTCGGGAGCCTCTGTGGGCCCCAGCTCCTGCCTCC
CAGTGGCCTCTGCTGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCCAGGCCTAGCGTTTGTCTGCTTTGCATCCTCT
CCAGGCCCTGGACTTCTCTCAGTCGGCCTCTCCAGGCCCAGCTCTTCTCTCGGGGCCCTCTGCAGGCCCAGACT
GTCGTCAAGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGCGGCCCTCTGCAGGCCCAAGTCGTCTCAAGTTG
GCCTCCCCAGGCCCAGCAACGGCCTCTCGGGGCCCTTTCCGGGTGCAAAAGTTCTCTGAGTCAGCCTCTCCAGGC
CCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGGCCAGCCAGCTCATGCCTCCCGGGGCCCTTCCAGGCCCT
GCTTTTGACTTTTGGTGGCCTCTGCAGGCTCGACAAGGCCAGGCCTCCTGCCTCCCAAGGCCCTGCACAGGCC
AGCCTCTGCCTCACAGCAGACTCTCCACGCCCAGCTAGCTCTCGCCTCACTGCGGCTTCCCGAGTCCAAAGCTCC
TGCCTCTCAGCCGCTTCGGCAGGCCCAGCTCCCGCCTGCCAGTGGCCTCTTCCAGGCCCATGGGGCTCATTTCTCA

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FIGURE 618B

CAACGGCCTTTCCAGGCCAGTTTTCCCTTCCGGCGGCCTCTTGGCCTCTAATTGTTTAICTTTTGGGTATAA
ATCCCAAAATATTGAATTTTGGAATATTCCACCATT

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FIGURE 619

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATAATGGAAATA
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCCGCTTTTGA
CTTTTGGCGGCCTCTTCAGGCC

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FIGURE 620

TTGAAGAACTTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGGAACATGCTGAGAAACTGATGAAGCTG
CAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTG
AATGCGATGGAGTGTGCATTACATTTGGAAAAAAGTGTGAATCAGTCACTACTGGAAGTGCACAAACTGGCCACT
GACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATAAGCAGGTGAAAGCCATCAAAGAA
TTGGGTGAGCACGTGACCAACTTGTGCAAGATGGGAGCGCCCGAATCTGGCTCGGCGGAATACCTCTTAGACAAG
CACACCCTGGGGGACAGTGATAATGAAAGCTAAGCCTCAGGCTAATTTCCACATAGCCGTGGGAGTGACTTCCCT
GGTCACCAAG

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FIGURE 621

MKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALHLEKSVNQSLLELHKLATDKNDPHLCDFIETHYLNKQVKA
IKELGEHVTLNCKMGAPESGSAEYLLDKHTLGDSDNES

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FIGURE 622

ATGGCCGGCACAAAGATGGGGCGGGAGGACAGCGTGCTGGATACGGCGTGGGGCGGGTCCGCGGCCCGGGAGACC
CATGCTGGGGCGGCCCTGTCACTCGTCTCGCTGCCAAGCACAGGGCTGAGGTGCGGAGGGACCACTGAGAGGACT
TCGCTGCGTGTCAGCTCAGCTCTGGACGGCGTGAGGAGCCCTGGAAACTTTATTTACAAAACTGACAGCAGCT
GCCCCTAGTTTGGCAGCTGGAAAATGGGAAAGAGAAAGTAAGAGGAAGGGTGGCAAAGGAGGGAGCCCATGTGGA
CAGCAGGAACGGGTACACGATAGCACAGAATCAAAACAAAGGCTCTCTGGTCGGAGTTTAGAAAGGCTGAAGGG
GATACTAAAGGAGGAGATAAAGCCCAGGTGAAGGACGAACCACAGAATAGATCCGCGAGGTTGTCTGCTAAACCT
GCTCCTCCAAAACCAGAGCCCAAGCCTAAAAAGGCCCCCTGCAGAGACAGTACCCAAAGGGAAAAAGGGAAAAGCT
GTTGCTGGCAAGGAGGGGAATAACCTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGT
GCTGGAGATGCCAAGGCAAATCTGCTGCCACGGTGTGGCAGCAAAGAAATGAAAGGAAGTGTCTGGCAGCGCAGG
GGAGAAATTGTGTTTCCTCCTTCTCCAAAGGTTACCTTTTCTATTTACCTTCATCATTGATAAGAAGGTGAAA
GGATGCCAGGAGCAAGGCGGATCTACGGGACTTTTGAAAAGAAATGTACTGACCTTTGGCTGTAAAACTGTGTC
ATGAGAACAGAAAGCCCTGAGAGAAGAAGACAGCCATTATGGGATCTATGGCGCACTCTGTGCTAGGGCAGAAT
GCCAGGGAAGAGCTGCCTGTCTTCAGCGCCCTTGCTGGGAACCACACGCCAGAACCCGACCCTGCCATGCTTTGT
GCTTCAGGCAGCAGGACCCACCCCTAACAGAGTCTCAAGTCAGACACTTAA

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FIGURE 623

MAGTKMGREDSVLDTAWGGSAAARETHAGAALSLVSLPSTGLRCGGTTERTSLRVSSALDGVEEPWKLYLQKLTA
ALSLAAGKWERESKRKGGKGGSPCGQQERVHDSTRIKTKALWSEFRKAEGDTKGGDKAQVKDEPQNR SARLSAKP
APPKPEPKPKKAPAETVPKGKKGKAVAGKEGNNPAENGDAKTDQAQKAEGAGDAKANLLPRCGSKEMKGSVWQRR
GEIVFPPSPKVHLFYFTFI IHKKVKGCQEQQGSTGLLKRNVLTFGCKNCVMRTESPERRRQPFMGSMASVVGQN
AREELPVFSALAGNHTPEPDPAMLCASGSRTPLTESQVRH

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FIGURE 624

AAGAAGCTGCCGTTGTTCTGGGTACTACAGCAGAAGGGTATGCGGAAGCGAGCACCCCAGTCTGAGATGGCTCCT
GCCGGTGTGAGCCTGAGGGCCACCATCCTCTGCCCTCCTGGCCTGGGCTGGCCTGGCTGCAGGTGACCGGGTGAC
ATACACCCCTTCCACCTCGTCATCCACAATGAGAGTACCTGTGAGCAGCTGGCAAAGGCCAATGCCGGGAAGCCC
AAAGACCCACCTTCATACCTGCTCCAATTGAGGCCAAGACATCCCCTGTGGATGAAAAGGCCCTACAGGACCAG
CTGGTGCTAGTCGCTGCAAAACTTGACACCGAAGACAAGTTGAGGGCCGCAATGGTCGGGATGCTGGCCAACTTC
TTGGGCTTCCGTATATATGGCATGCACAGTGAGCTATGGGGCGTGGTCCATGGGGCCACCGTCCTCTCCCCAACG
GCTGTCTTTGGCACCCTGGCCTCTCTCTATCTGGGAGCCTTGAGCCACACAGCTGACAGGCTACAGGCAATCCTG
GGTGTTCCTTGAAGGACAAGAAGTGCACCTCCCGGCTGGATGCGCACAAGTCCTGTCTGCCCTGCAGGCTGTA
CAGGGCCTGCTAGTGGCCAGGGCTGATAGCCAGGCCAGCTGCTGCTGTCCACGGTGGTGGGCGTGTTTC
ACAGCCCCAGGCCTGCACCTGAAGCAGCCGTTTGTCAGGGCCTGGCTCTCTATACCCCTGTGGTCTCTCCACGC
TCTCTGGACTTCACAGAAGTGGATGTTGCTGCTGAGAAGATTGACAGGTTTCATGCAGGCTGTGACAGGATGGAAG
ACTGGCTGCTCCCTGATGGGAGCCAGTGTGGACAGCACCCTGGCTTTCAACACCTACGTCCACTTCCAAGGGAAG
ATGAAGGGCTTCTCCCTGCTGGCCGAGCCCCAGGAGTCTGGGTGGACAACAGCACCTCAGTGTCTGTTCCCATG
CTCTCTGGCATGGGCACCTTCCAGCACTGGAGTGACATCCAGGACAACCTTCTCGGTGACTCAAGTGCCCTTCACT
GAGAGCGCCTGCCCTGCTGCTGATCCAGCCTCACTATGCCTCTGACCTGGACAAGGTGGAGGGTCTCACTTTCCAG
CAAACTCCCTCAACTGGATGAAGAACTGTCTCCCCGGACCATCCACCTGACCATGCCCCAACTGGTGCTGCAA
GGATCTTATGACCTGCAGGACCTGCTCGCCAGGCTGAGCTGCCCGCCATTCTGCACACCGAGCTGAACCTGCAA
AAATTGAGCAATGACCGCATCAGGGTGGGGGAGGTGCTGAACAGCATTTTTTTTGAGCTTGAAGCGGATGAGAGA
GAGCCACAGAGTCTACCCAACAGCTTAACAAGCCTGAGGTCTTGAGGTGACCCTGAACCGCCCCATTCTGTTT
GCTGTGTATGATCAAAGCGCCACTGCCCTGCACTTCTTGGGCCGCGTGGCCAACCCGCTGAGCACAGCATGAGGC
CAGGGCCCCAGAACACAGTGCCCTGGCAAGGCCTCTGCCCCTGGCCTTTGAGGCAAAGGCCAGCAGCAGATAACAA
CCCCGGACAAATCAGCGATGTGTACCCCCAGTCTCCACCTTTTCTTCTAATGAGTCGACTTTGAGCTGGAAAG
CAGCCGTTTCTCCTTGGICTAAGTGTGCTGCATGGAGTGAGCAGTAGAAGCCTGCAGCGGCACAAATGCACCTCC
CAGTTTGCTGGGTTTATTTTAGAGAATGGGGGTGGGGAGGCAAGAACCAGTGTTTAGCGCGGGACTACTGTTCCA
AAAAGAATTCCAACCGACCAGCTTGTTTGTGAAACAAAAAAGTGTTCCCTTTTCAAGTTGAGAACAAAAATTGGG
TTTTAAATTAAGTATACATTTTTGCAATTGCCCTTCGGTTTGTATTTAGTGTCTTGAATGTAAGAACATGACCTC
CGTGTAGTGTCTGTAATACCTTAGTTTTTCCACAGATGCTTGTGATTTTGAACAATACGTGAAAGATGCAAGC
ACCTGAATTTCTGTTTGAATGCGGAACAATAGCTGGTTATTTCTCCCTTGTGTTAGTAATAACGTCTTGCCAC

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FIGURE 625

MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPAPIQAK
TSPVDEKALQDQLVLVAAKLDTEKLRAMVGMLANFLGFRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGA
LDHTADRLQAILGVPWKDKNCTSRLEDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVTAPGLHLKQPFVQ
GLALYTPVVLPRSLDFTELDVAEEKIDRFMQAVTGWKTGCSLMGASVDSTLAFNTYVHFQGKMKGFSLLAEPQEF
WVDNSTSVSVPMLSGMGTFQHWSDIQDNFSVTQVPFTESACLLLIQPHYASDLKVEGLTFQQNSLNWMKKLSPR
TIHLTMPQLVLQGSYDLQDLLAQAEPAIHLTELNLQKLSNDRIRVGEVLNSIFFELEADEREPTTESTQQLNKPE
VLEVTLNRPFLFAVYDQSATALHFLGRVANPLSTA

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FIGURE 626

GAATTCGGCACGAGCCGGGATCCTGTGTAGCGGCTGCAGAGGGTGCCGCCGCCCTAGGCGAAGTAGGGCCGTCTT
GAGCGAAAGAACCGCCCCAGCAGGAGCACCACCACGGCTTAGCAAAGAATCCAGACCCCGCCGGGAAGGCAG
CCGCACCATGGAGTCTTCCAGTTCATCTAACTCTTATTTCTCCGTTGGCCCAACCAGTCCCAGCGCTGTCGTGCT
CCTCTACTCGAAGGAGCTCAAAAAGTGGGATGAGTTTGAAGATATTTAGAAGAGAGGAGGCATGTCAGTGACTT
GAAATTTGCAATGAAATGCTACACACCTCTTGTCTATAAGGGAATTACTCCATGTAAACCAATTGATATTAAATG
TAGTGTTCTCAATTCTGAGGAGATTCAATTATGTCATTAAACAGCTTTCCAAGGAATCCCTTCAATCTGTGGATGT
CCTCCGAGAGGAAGTGAGTGAGATCTTAGATGAAATGAGTCACAACTGCGTCTTGGAGCCATTCCGTTTTGTGC
CTTACCCCTGAGCAAAGTATTTAAACAAATTTTCTCGAAGGTGTGTGTAATGAAGAAGGTATTCAGAACTACA
AAGAGCCATCCAGGAGCATCCTGTTGTTCTGCTGCCTAGTCATCGAAGTTACATTGACTTCCTCATGTTGTCTTT
TCTTCTATACAATTATGATTTGCCTGTGCCAGTTATAGCAGCAGGAATGGACTTCCTGGGAATGAAAATGGTTGG
TGAGCTGCTACGAATGTGCGGTGCCTTTTTTCATGCGGCGTACCTTTGGTGGCAATAAACTCTACTGGGCTGTATT
CTCTGAATATGTAAAACTATGTTACGGAATGGTTATGCTCCTGTTGAATTTTTCTCGAAGGGACAAGAAGCCG
CTCTGCCAAGACATTGACTCCTAAATTTGGTCTTCTGAATATTGTGATGGAGCCATTTTTTAAAGAGAAGTTTT
TGATACCTACCTTGTCCCAATTAGTATCAGTTATGATAAGATCTTGAAGAACTCTTTATGTGTATGAGCTTCT
AGGGGTTCTTAAACCAAAAGAGTCTACAACGGGTTGCTGAAAGCCAGAAAGATTCTCTCTGAAAATTTTGAAG
CATCCATGTGTACTTTGGAGATCCTGTGTCACTTCGATCTTTGGCAGCTGGGAGGATGAGTCGGAGCTCATATAA
CTTGGTTCCAAGATACATTCCTCAGAAACAGTCTGAGGACATGCATGCCTTTGTCACTGAAGTTGCCTACAAAT
GGAGCTTCTGCAAATTGAAAACATGGTTTTGAGCCCCCTGGACCCTAATAGTTGCTGTTCTGCTTCAGAACCGGCC
ATCCATGGACTTTGATGCTCTGGTGGAAGACTTTATGGCTAAAAGGCTTAACCCAGGCATTTGGAGGGTTTCT
CATTTGGCCTGATAATAAACCTGCTGAAGAAGTTGTCCCGGCCAGCATTCTTCTGCATTCCAACATTGCCAGCCT
TGTCAAAGACCAGGTGATTCTGAAAGTGGACTCCGGAGACTCGGAAGTGGTCGATGGGCTTATGCTCCAGCACAT
CACTCTCCTCATGTGCTCAGCTTATAGGAACCAGCTGCTCAACATTTTTTGTGCGCCCATCCTTAGTAGCAGTAGC
ATTGCAGATGACACCAGGGTTCAGGAAAGAGGATGTCTACAGTTGCTTTTCGCTTCCTACGTGATGTTTTTGCAGA
TGAGTTCATCTTCTTCCAGGAAACACACTAAAGGACTTTGAAGAAGGCTGTACCTGCTTTGTAAAAGTGAAGC
CATACAAGTGACTACGAAAGACATCCTAGTTACAGAGAAAGGAAATACTGTGTTAGAATTTTAGTAGGACTCTT
TAAACCTTTTGTGGAAAGCTATCAGATAATTTGCAAGTACCTTTTGAAGTGAAGAAGAGGACCACTTCAGTGAGGA
ACAGTACTTGGCTGCAGTCAGAAAATTCACAAGTCAGCTTCTCGATCAAGGTACCTCTCAATGTTATGATGTATT
ATCTTCTGATGTGCAGAAAAACGCCTTAGCAGCCTGTGTGAGGCTCGGAGTAGTGGAGAAGAAGAAGATAAATAA
TAACTGTATATTTAATGTGAATGAACCTGCCACAACCAAATTAGAAGAAATGCTTGGTTGTAAGACACCAATAGG
AAAACCAGCCACTGCAAACTTTTAATAATCAACAAATAGTTATGGAATAATTCGGTCACGTAATTACTCTCATCGA
AGGACTCATTACAACAAACAGGGAAGTAAAGGAAGAGACACATCCTCTCATACTCCCTGAGACTCTGAGAACAGT
GGACGCAGAGGGAAGAGATGATCATTGGAAGCAATCAGTTTACTCTTCCCCACCACAGTGGTTAAAAGCGTTTG
TATCTGACACTATGTGTGTGTTTTAAATAAACTTTTGGAAACATGAAAAAAAAAAAAAAAAAACTCGAG

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FIGURE 627

MESSSSSNSYFSVGPTSPSAVVLLYSKELKKWDEFEDILEERRHVSDLKFAMKCYTPLVYKGITPCKPIDIKCSV
LNSEEIHYVIKQLSKESLQSVDLREEVSEILDEMSHKLRIGAIRFCAFTLSKVFKQIFSKVCVNEEGIQKLQRA
IQEHPVLLPSHRSYIDFLMLSFLLYNYDLVPVIAAGMDFLGMKMVGELLRMSGAFFMRRTFGGNKLYWAVFSE
YVKTMLRNGYAPVEFFLEGTRSRSAKTLTPKFGLLNIVMEPFFKREVFDTYLVPISSYDKILEETLYVYELLGV
PKPKESTTGILLKARKILSENFGSIHVYFGDPVSLRSLAAGRMSRSSYNLVPRYIPQKQSEDMHAFVTEVAYKMEL
LQIENMVLSPWTLIVAVLLQNRPSMDFDALVEKTLWLKGLTQAFGGFLIWPDNKPAAEVVPASILLHSNIASLVK
DQVILKVDSGDSEVVDGLMLQHITLLMCSAYRNQLLNIFVRPSLVAVALQMTPGFRKEDVYSCFRFLRDVFADEF
IFLPGNTLKDFEEGCYLLCKSEAIQVTTKDILVTEKGNTVLEFLVGLFKPFVESYQIICKYLLSEEDHFSEEQY
LAAVRKFTSQLLDQGTSQCYDVLSSDVQKNALAACVRLGVVEKKKINNNCIFNVNEPATTKLEEMLGCKTPIGKP
ATAKL

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FIGURE 628

CTCTTCCTAAGCCGGCGCTCGGCAAGTTCTCCAGGAGAAGGCCATGTTTCAGTACGAGCGCCAAGATCGTGAAGC
CTAATGGCGAGAAGCCGGACGAGTTCGAGTCCCGCATCTCCAGGCTCTTCTGGAGCTGGAGATGAACTTGGACC
TCAAGGCTCAGCTCAGGGAGCTGAATATTATGGCAGCCAAGGAAATTGAGGTTGGTGGTGGTCAGAAAGCTATCA
TAATCTTTGTTCCCGTTCCTCAACTGAAATCTTTCCAGAAAATCCAAGTCCGGCTAGTATGTGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTTGTCTTTATCGCTTAAAGGAGAATCCTGCCTAAGCCAACTTGGAAAAGCTGTACAA
AATATAAGCAAAAGCATCCCAGGAGCCATACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCA
CAAGCAAAATTGTGGGCAAGAGAATCCGCGTGAACTAGATGGCAGCCGGCTCATGAAGGTTTCATTTGGACAAAG
CACAGCAGAACAATGTGGAACACAAGGTTGAACTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTA
ATTTTGAATTCCCAGAGTTTCAATTGTAAACAAAATGACTAAATAAAAAATATATATTCACAGT

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FIGURE 629

MFSTSAKIVKPNGEKPDDEFESRISQALLELEMNLDLKAQLRELNIMAAKEIEVGGGQKAIIFVPVPQLKSFQKI
QVRLVCELEKKFSGKHVVFIAKRRLPKPTWKSCTKYKQKHPRSHLTAVHDAILEDLVFTSKIVGKRIRVKLDG
SRLMKVHLDKAQQNNVEHKVETFSGVYKKLMGKDVNFEFPEFQL

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FIGURE 630

GTCGCGACCCTGGTCCGGACCTGACCTGAATTGCGACCCCAACCTGGACTGCTCCCCCTGACCGCAACCCCTACCC
CCGCCCACCAGTATGGCCCGGCACGTGTTCCTAACGGGGCCCCCAGGAGTTGGAAAAACAACATTGATCCATAAA
GCCAGTGAGGTTTTTAAAAATCCTCTGGTGTGCCTGTTGATGGATTTTATACCGAAGAAGTCAGACAGGGAGGGAGA
AGAATAGGATTTCGATGTCGTCACGTTGTCCGGCACCCGGGGGCCTTTATCGAGAGTTGGGTTAGAGCCTCCACCT
GGAAAACGTGAATGCCGAGTTGGGCAGTATGTGGTCGACCTGACTTCTTTTGAGCAGTTGGCACTACCCGTCTTG
AGGAATGCCGACTGCAGCAGTGGCCCAGGGCAAAGAGTGTGCGTCATCGATGAGATTGGGAAGATGGAGCTCTTC
AGTCAGCTTTTCATTCAAGCTGTTTCGTCAGACGCTGTCTACCCAGGGACTATAATCCTTGGCACAATCCCAGTT
CCTAAAGGAAAGCCACTGGCTCTTGTAGAAGAAATCAGAAACAGAAAGGATGTGAAGGTGTTTAATGTCACCAAG
GAAAACAGAAACCACCTTCTGCCAGATATCGTGACGTGCGTGCAGAGCAGCAGGAAGTGAAGACACGTGCATTCC
TGCCTTCCGTGAAGGAGTGGCCAGTTCAAGAGGAGCCTGATGGAGCCCTGCCTGTCGAGGCTGTATGCCTATGGG
GTTATGGAACCTTGTGGGCTTTTCTAGAGAAACTCAACAGCTGTTTCCCATAAAATGTTTAAAAGATCAAATTA
GCCTTAATGCTGGATTGTCTGTACAAGATTAACCTATCCATTGTGGCTTATCTATGCTTAAAGATTCTTGTTTAT
TTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 631

MARHVFLTGPPGVGKTTLIHKASEVLKSSGVPVDGFYTEEVRQGGRRIGFDVVTLSGTRGPLSRVGGLEPPPGKRE
CRVGQYVVDLTSFEQLALPVLARNADCSSGPGQRCVIDEIGKMELFSQLFIQAVRQTLSTPGTIILGTIPVPGK
PLALVEEIRNRKDVKFNVTKENRNHLLPDIVTCVQSSRK

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FIGURE 632

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC
AGCTGCTGGACATGTCCTACGAACAGCTGATGCAGCTGTACAGTGC GCGCCAGCGGCGGCGGCTGAACCGGGGCC
TGCGGCGGAAGCGGCACTACCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGG
AAGTGGTGAAGACGCACCTGAGGGACGTGATCATCCTGCCCAGGTGGTGGGCAGCATGGTGGGCGTCCACAACG
GCAAGACCTTCACCTACAAGCCCGTAAAGCAATGCCGGTCCGGCATCGGCGCCACCCACTCCTTCTGCTTCATCC
CTCTCAAGTAGTGGCTCAGCTAATAAAGGCGCACATG

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FIGURE 633

MAVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKRHYLLKRLRKAKKEAPPMEKPEV
VKTHLRDVIILPEVVGSMVGVHNGKTFTYKPVKQCRSGIGATHSFCFIPLK

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FIGURE 634

ACCATGTCTATTCTCAAGATCCATGCCAGGGAGCTCTTTGACTCTCGTGCGGAATCCCACTGTTGAGGTTGATCTC
TTCACCTCAGAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGTCCTAGAGCTC
CAGGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGCCTGTTGAGCCCATCAATAAACTATTGCA
CCTGTCCTGGTTAGCAAGAACTGAACGTCACAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAG
CTCTAGCCTTGCAAGTCATGTAATTGGCCCAAATCACCGGAGCCACGTGACCCTCCAGTGTCATCTCCGGGGTGGC
CACAGGCAAGATCCCCAGTGATTTTGTGCTCAAAATAAAAAGCCTCATTGACCCATGAG

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FIGURE 635

MSILKIHARELFDSRGNPTVEVDLFTSEGLFRAAVPSGASTGIYEVLELQDNDKTRYMGKGVSKPVEPINKTIAP
VLVSKKLNVTPELLQKPSSLEPCWQL

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FIGURE 636

CCCAGAAATTCTACCCAAGCTCCCTCAGCACCAATGTACCGAGCACTTCGGCTCCTCGCGCGCTCGCGTCCCCTCG
TGCGGGCTCCAGCCGCAGCCTTAGCTTCGGCTCCCGGCTTGGGTGGCGCGGCCGTGCCCTCGTTTTGGCCTCCGA
ACGCGGCTCGAATGGCAAGCCAAAATTCCTTCCGGATAGAATATGATACCTTTGGTGAATAAGGTGCCAAATG
ATAAGTATTATGGCGCCAGACCGTGAGATCTACGATGAACTTTAAGATTGGAGGTGTGACAGAACGCATGCCAA
CCCCAGTTATTAAAGCTTTTGGCATCTTGAAGCGAGCGCCGCTGAAGTAAACCAGGATTATGGTCTTGATCCAA
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAAATGATCATTTCCTCTCGTGG
TATGGCAGACTGGATCAGGAACCTCAGACAAATATGAATGTAAATGAAGTCATTAGCAATAGAGCAATTGAAATGT
TAGGAGGTGAACCTGGCAGCAAGATACCTGTGCATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAAATGATA
CTTTTCCCACAGCAATGCACATTGCTGCTGCAATAGAAGTTCATGAAGTACTGTTACCAGGACTACAGAAGTTAC
ATGATGCTCTTGATGCAAAATCCAAAGAGTTTGCACAGATCATCAAGATTGGACGTACTCATACTCAGGATGCTG
TTCCACTTACTCTTGGGCAGGAATTTAGTGGTTATGTTCAACAAGTAAAATATGCAATGACAAGAATAAAAGCTG
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCACTGCTGTTGGTACAGGTTTAAATACTAGAATTGGCTTTG
CAGAAAAGGTTGCTGCAAAAGTGGCTGCACTTACAGGCTTGCCCTTTTGTCAGTCTCCGAATAAATTTGAAGCTC
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCCTGCAGTCTGATGAAGATAGCAA
ATGATATTGATTTTTTGGGTTCTGGTCCTCGGTACAGGTCTGGGAGAATTGATCTTGCCTGAAAATGAACCAGGAA
GCAGTATCATGCCAGGCAAGGTGAACCCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCCCAAGTCATGGGGA
ACCATGTTGCTGTCACTGTCTGGAGGCAGCAATGGACATTTTGAGTTGAATGTTTTCAAGCCAATGATGATTAAAA
ATGTGTTACACTCAGCCAGGCTGCTGGGGGATGCTTCAGTTTCCTTTACAGAAAACCTGCGTGGTGGGAATCCAGG
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTGACAGCTCTCAATCCTCATATAGGGT
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACACAAAAATGGATCAACCTTAAAGGAAACTGCTATCGAACTTG
GCTATCTCACAGCAGAGCAGTTTGACGAATGGGTAAAACCTAAGGACATGCTGGGTCCAAAGTGTGATTTACATAAA
TTTATAATGAAAATAAACATGTATAAAATTTAAAAAACAGACTCCCATTTCCTTAAAAACGGATAAGTTTGAAAG
GAAACTGCTATTGAACCTAAGCATCTCTAGCAGAGCAATTTGATCAGTATATAAAACCTAGGATGTGCTAGGTC
TAAGATGGATTAAACAAGTATAAAATAAAATACATTTATAAAATAAAAGGAAAACAGACTTAAAA

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FIGURE 637

MYRALRLLARSRLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDHFPLVWQTGSGTQTN
MNVNEVISNRAIEMLGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF
AQIIKIGRTHQTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL
TGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMN
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

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FIGURE 638

GGGXTCGGCCCCCTCCCCCTCTTCTGCGCTCTCTTCGGGATACACGTGGGCTTCGGGCCTGGGCCGCGCAGTTTTT
CITTGGCTTTCTCGAATCATCGAGGAGACTGGCAAATTAGTAATGTCTTTAGACTGCGTCACTAGCGCCAATCG
AATTCGTAGTTGATTGTTCTTTGAATTCACATTTGAGTCCTCGGTAAAAACCTCAGTTAAAAAGCAGGATAAAGT
CGAGCTGCTTTGGTTCTCGGAACGGAAAAGCGTTTTTTTTGTTGTTTAGAGGCTTGGCCTTTATGGGGCTCGTGTG
TGTTTTAGGGGACGGCAAACAGAACAGAAAGGCGGAGATAAAAAGAGGGGTGTTAAAAGACCACGAGAAGATCA
TGGCCGTGGATATTTTGAGTACATTGAAGAGAACAAAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGTTGAAGA
AGAAGATGAACACTTCGATGACACAGTGGTTTGTCTTGATACTTATAATTGTGATCTACATTTTAAATATCAAG
AGATCGTCTCAGTGCTTCTTCCCTTACAATGGAGAGTTTTGCTTTTTCTTTGGGCTGGAGGAAGAGCATCCTATGG
TGTGTCAAAAGGCCAAAGTGTGTTTTGAGATGAAGGTTACAGAGAAGATCCCAGTAAGGCATTTATATACAAAAGA
TATTGACATACATGAAGTTCGTATTGGCTGGTCACTAATACTACAAGTGGAAATGTTACTTGGTGAAGAAGAATTTTC
TTATGGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGACTGAAGATTATGGAGAAAAGTTTGATGAAAA
TGATGTGATTACATGTTTTGCTAACTTTGAAAGTGATGAAGTAGAACTCTCGTATGCTAAGAATGGACAAGATCT
TGGCGTTGCCCTTCAAATCAGTAAGGAAGTTCTTGCTGGACGGCCACTGTTCCCGCATGTTCTCTGCCACAACCTG
TGCAGTTGAATTTAATTTTGGTCAGAAGGAAAAGCCATATTTTCCAATACCTGAAGAGTATACTTTCATCCAGAA
CGTCCCCCTTAGAGGATCGAGTTAGAGGACCAAAGGGGCCTGAAGAGAAGAAAGATTGTGAAGTTGTGATGATGAT
TGGCTTGCCAGGAGCTGGAAAAACTACCTGGGTTACTAAACATGCAGCAGAAAATCCAGGGAAATATAACATTCT
TGGCACAAATACTATTATGGATAAGATGATGGTGGCAGGTTTTAAGAAGCAAATGGCAGATACTGGAAAACCTGAA
CACACTGTTGCAGAGAGCCCCCAGTGTCTTGGAATTTATTGAGATTGCTGCCCCGAAAGAAGCGAAATTTTAT
TCTGGATCAGACAAATGTGTCTGCTGCTGCCAGAGGAGAAAAATGTGCCTGTTTGCAGGCTTCCAGCGAAAAGC
TGTTGTAGTTTGCCCAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAAGCAGAAGTAGAGGGGAAAGACCT
ACCAGAACATGCGGTCTCAAATGAAAGGAACTTTACCCTCCCAGAGGTAGCTGAGTGCTTTGATGAAATAAC
CTATGTTGAACCTTCAGAAGGAAGAAGCCCAAACCTCTTGAGCAATATAAGGAAGAAAGCAAAGGCTCTTCC
ACCAGAAAAGAAACAGAACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGGCAAGAACCAGTTTAACAGAGG
TGGTGGCCATAGAGGACGTGGAGGATTCAATATGCGTGGTGGAAATTTAGAGGAGGAGCCCCCTGGGAATCGTGG
CGGATATAATAGGAGGGGCAACATGCCACAGAGAGGTGGTGGCGGTGGAGGAAGTGGTGGAAATCGGCTATCCATA
CCCTCGTGCCCTGTTTTTCTGGCCGTGGTAGTTACTCAAACAGAGGGAACCTACAACAGAGGTGGAATGCCCAA
CAGAGGGAACCTACAACCAGAACTTCAGAGGACGAGGAAACAATCGTGGCTACAAAAATCAATCTCAGGGCTACAA
CCAGTGGCAGCAGGGTCAATTCTGGGGTCAGAAGCCATGGAGTCAGCATTATCACCAAGGATATTATTGAATACC
CAAATAAAACGAACCTGATACATATTTCTCCAAAACCTTCACAAGAAGTCGACTGTTTTCTTTAGTAGGCTAACTT
TTTAAACATTCCACAAGAGGAAGTGCCCTGCGGGTTCTTTTTTAGAAGCTTTGTGGGTGATTTTTTTTTCTTTTC
TTTTTTGTACATTTTTTAATTGCAGTTTAAAAGTGAATCGTAAGAGAACCTCAGCATTGTGCACGATAAGAGAATG
TGTCAGTATTTAGGGTTCTACATTTTATCTGTAAAATGTGACTTTTTTTTTTTTTTATCACACAGAAGTAAAA
TGTTGCTTTGTACCTGGTGTCTTTTATTAAGAATTTACTCCCCCATTTCTCACAGAGAATAACAGTCGGGAGTC
ATTGTCACAATATAATAGAAATGTTAGCAACCAGATTTCATGTAAGGACTAAGTGGTCCCTCATGAATTGCATTAAG
ACTCTGTACTGCTCATATTACACTCCATCCTCTCTGTAGTTTGCTGGGTAGTGGAGGGGGTAAGCTAAATCATAG
TTTCTGACAATAACTGGGAAGGTTTTTTCTTAAAATAACAATGGAATTGGTATAATTGGGATTGAAAACATAAAC
TTGGAACATAAGATAGAGAAGATGGAGTGTATGTAGAAGGGCTGTAAAAATGTAAACTTGGTTGCATTATTGT
GGAGGCTCAAACCTGTGAAGGTTAATACCATAATTTTTCCATTTGTTCTGCATTTTGATTCTGAAAAGAAAGCTG
GCTTTGCCCATTTCTTATTAAAAAACTTGTGTGTAATCCAGTTGTCTAATGGGATCTATATGAAGTTAGCCATG
TCTGTATGCCCTTCTCCACAAAATACTGTATAACTAGTGTGCTTGTAGTAGTTAACTCCACCATCTTTGTAAGC
TAATGAAATTGTGAGTCACCCATTTATATCTTAATTTTTAATCATGTCTAGTTCTTGAATGGGTATCTCCTTAGCC
TGCTGATTTCTTTTTCTTTCTAAAGAAAGTGGGTGGAGAAATTAATTTAGACGTTTGTGTCATAAAAAGAATT
CATTTT

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FIGURE 639

GGCGTTGCCGGCCGTGGGTGCTCTGGCCACAGTGAGTTAGGGGCGTCGGAGCGGGTTTCTCCAACCGCAATCGGC
TCCGCTCAAGGGGAGGAGGAGAGTCCCTTCTCGGAAGGCCTAAGGAAACGTGTCGTCTGGAATGGGCTTGGGGGC
CACGCTGCACATCTCCGCGAGACAGAGGGATAAAGTGAAGATGGTGCTGTTATTGTTACCTCGAGTGCCACATG
CGACCTCTGAGATATGTACACAGTCATTCTTACTATCGCACTCAGCCATTCTTACTACGCTAAAGAAGAAATAAT
TATTCGAGGATATTTGCCTGGCCCAGAAGAACTTATGTAAATTTTCATGAACCTATTATATCCGTTTTCTCGGAG
TGAGAGAAAACCTCTTTTTAGATATCATCTGAGAGAACTAGTGAATCCAGTCACTGAGTGGAGTTGAGAGTCTAA
GAACCTCTGAAATTTGAGAACTGCTGGACCAGAGCCTTTAGAGCTCTGATAAGGTGTCAACAGGGTAGTTAATTT
GGCACCATGGGGATACAGGGATTGCTACAATTTATCAAAGAAGCTTCAGAACCCATCCATGTGAGGAAGTATAAA
GGGCAGGTAGTAGCTGTGGATACATATTGCTGGCTTCACAAAGGAGCTATTGCTTGTGCTGAAAACTAGCCAAA
GGTGAACCTACTGATAGGTATGTAGGATTTTGTATGAAATTTGTAAATATGTTACTATCTCATGGGATCAAGCCT
ATTCTCGTATTTGATGGATGTACTTTACCTTCTAAAAAGGAAGTAGAGAGATCTAGAAGAGAAAGACGACAAGCC
AATCTTCTTAAGGGAAAGCAACTTCTTCGTGAGGGGAAAGTCTCGGAAGCTCGAGAGTGTTCACCCGGTCTATC
AATATCACACATGCCATGGCCCACAAAGTAATTAAGCTGCCCGGTCTCAGGGGGTAGATTGCCTCGTGGCTCCC
TATGAAGCTGATGCGCAGTTGGCCTATCTTAACAAAGCGGAATTGTGCAAGCCATAATTACAGAGGACTCGGAT
CTCCTAGCTTTTGGCTGTAAAAAGGTAATTTTAAAGATGGACCAGTTTGAAATGGACTTGAAATTGATCAAGCT
CGGCTAGGAATGTGCAGACAGCTTGGGGATGTATTACGGAAGAGAAGTTTCGTTACATGTGTATTCTTTCAGGT
TGTGACTACCTGTCACTGCGTGGGATTGGATTAGCAAAGGCATGCAAAGTCCTAAGACTAGCCAATAATCCA
GATATAGTAAAGTTATCAAGAAAATTGGACATTATCTCAAGATGAATATCACGGTACCAGAGGATTACATCAAC
GGGTTTTATTGGGCCAACAATACCTTCTCTATCAGCTAGTTTTTGATCCCATCAAAAGGAAACTTATTCCTCTG
AACGCCTATGAAGATGATGTTGATCCTGAAACACTAAGCTACGCTGGGCAATATGTTGATGATTCCATAGCTCTT
CAAATAGCACTTGGAATAAAGATATAAATACTTTTGAACAGATCGATGACTACAATCCAGACACTGCTATGCCT
GCCCATTCAAGAAGTCATAGTTGGGATGACAAAACATGTCAAAGTCAGCTAATGTTAGCAGCATTGCGCATAGG
AATTACTCTCCAGACCAGAGTCGGGTACTGTTTCAGATGCCCCACAATTGAAGGAAAATCCAAGTACTGTGGGA
GTGGAACGAGTGATTAGTACTAAAGGGTTAAATCTCCCAAGGAAATCATCCATTGTGAAAAGACCAAGAAGTGCA
GAGCTGTCAGAAGATGACCTGTTGAGTCAGTATTCTCTTTTCAATTTACGAAGAAGACCAAGAAAAATAGCTCTGAA
GGCAATAAATCATTGAGCTTTTCTGAAGTGTTGTGCCTGACCTGGTAAATGGACCTACTAACAAAAAGAGTGTA
AGCACTCCACCTAGGACGAGAAATAAATTTGCAACATTTTACAAAGGAAAAATGAAGAAAGTGGTGCACTTGTG
GTTCCAGGGACCAGAAGCAGGTTTTTTTTGTCAGTTCAGATTCTACTGACTGTGTATCAAACAAAGTGAGCATCCAG
CCTCTGGATGAACTGCTGTACAGATAAAGAGAACAATCTGCATGAATCAGAGTATGGAGACCAAGAAGGCAAG
AGACTGGTTGACACAGATGTAGCACGTAATTCAGTGATGACATTCCGAATAATCATATTCCAGGTGATCATATT
CCAGACAAGGCAACAGTGTTTACAGATGAAGAGTCTTACTCTTTTGAGAGCAGCAAATTTACAAGGACCATTTCA
CCACCCACTTTGGGAACACTAAGAAGTTGTTTTAGTTGGTCTGGAGGTCTTGGAGATTTTCAAGAACGCCGAGC
CCCTCTCCAAGCACAGCATTGCAGCAGTTCCGAAGAAAGAGCGATTCCCCACCTCTTTGCCTGAGAATAATATG
TCTGATGTGTGCGAGTTAAAGAGCGAGGAGTCCAGTGACGATGAGTCTCATCCCTTACGAGAAGGGGCATGTTCT
TCACAGTCCCAGGAAAGTGGAAGATTCTCACTGCAGAGTTCAAATGCATCAAAGCTTTCTCAGTGCTCTAGTAAG
GACTCTGATTGAGAGGAATCTGATTGCAATATTAAGTTACTTGACAGTCAAAGTGACCAGACCTCCAAGCTATGT
TTATCTCATTTCTCAAAAAAAGACACACCTCTAAGGAACAAGGTTCTTGGGCTATATAAGTCCAGTTCTGCAGAC
TCTCTTTCTACAACCAAGATCAAACCTCTAGGACCTGCCAGAGCCAGTGGGCTGAGCAAGAAGCCGGCAAGCATC
CAGAAGAGAAAGCATCATAATGCCGAGAACAAGCCGGGGTTACAGATCAAATCAATGAGCTCTGGAAAACTTT
GGATTTAAAAAAGATTCTGAAAAGCTTCTCTTGTAAAGAAACCCCTGTCCCAGTCAGAGATAACATCCAACCTA
ACTCCAGAAGCGGAAGAGGATATATTAACAAACCTGAATGTGGCCGTGTTCAAAGAGCAATATTCCAGTAAATG
CAGACTGCTGCAAAGCTTTTGCCTGCAAGAGAATCTGATCAATTTGAAGTCCCTGTTTGGGAATGAGGCACTTAT
CAGCATGAAGAATTTTTTCTCATTCTGTGCCATTTTAAAAATAGAATACATTTTGTATATTGACTTTAAAAAAA
AAAAAAAAAAAAA

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FIGURE 640

MGIQGLLQFIKEASEPIHVRKYKGQVVAVDTYCWLHKGAIACAELAKGEPTDRYVGFCMKFVNMLLSHGKPIIL
VFDGCTLPSKKEVERSRERRRQANLLKGKQLLREGKVSEARECFTRSINITHAMAHKVIKAARSQGVDCLVAPYE
ADAQLAYLNKAGIVQAIITEDSDLLAFGCKKVILKMDQFGNGLEIDQARLGMCRLGDFVTEEFKFRYMCILSGCD
YLSSLRGIGLAKACKVLRANNPDIKVIKKIGHYLMKNITVPEDYINGFIRANNTFLYQLVFDPIKRKLIPLNA
YEDDVDPETLSYAGQYVDDSIQIALGNKDINTFEQIDDYNPDTAMPAHSRSHSWDDKTCQKSANVSSIWHRNY
SPRPESGTVSDAPQLKENPSTVGVERVISTKGLNLPRKSSIVKRPRSAELSEDDLLSQYSLSFTHKTKKNSSEGN
KSLSFSEVFVPDLVNGFTNKKSVPSTPPRTRNKFATFLQRKNEESGAVVVPGTRSRFFCSDSDCVSNKVSIOPL
DETAVIDKENNLHESEYGDQEGKRLVDTDVARNSSDDIPNNHIPGDHIPDKATVFTDEESYSFESSKFTRTISPP
TLGTLRSCFSWSGGLGDFSRTPSPSPSTALQQFRRKSDSPTSLPENNMSDVSQLKSEESSDDESHPLREGACSSQ
SQESGEFSLQSSNASKLSQCSSKSDSEESDCNIKLLDSQSDQTSKLCLSHFSKKDTPLRNKVPGLYKSSSADSL
STTKIKPLGPARASGLSKKPASIQKRKHNAENKPGLOIKLNLWKNFGFKKDSEKLPPCKKPLSPVRDNIQLTP
EAEEDIFNKPECGRVQRAIFQ

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FIGURE 641

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA

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FIGURE 642

GTCCACATGCAGAGGCTCGCTACAGAAGCTACAGAAGAAGATGGTTACATTTCAAGTGGGCAGGTGCCGTTTGCT
TATGAGCACCATCAGCCACATCAGCCACGGTTCCTTTGAATTTTACCTAATTGTCTCTAATTCTTAACAATTCTTT
GAGGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAGATGCAGGAAGTTGGTGTGGCCTATATCCCAGTATC
TCTTTGCTCAATCACAGCTGTGACCCCACTGTTCGATTGTGTTCAATGGGCCCCACCTCTTACTGCGAGCAGTC
CGAGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAGTGAGGAGCGCCGGAAG
CAGCTGAGGGACCAGTACTGCTTTGAATGTGACTGTTCCGTTGCCAAACCCAGGACAAGGATGCTGATATGCTA
ACTGGTGATGAGCAAGTATGGAAGGAAGTTCAAGAATCCCTGAAAAAATTGAAGAACTGAAGGCACACTGGAAG
TGGGAGCAGGTTCTGGCCATGTGCCAGGCAATCATAAGCAGCAATTCTGAACGGCTTCCCGATATCAACATCTAC
CAGCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGAAGCCTTGTTCTATGGT
ACTCGGACCATGGAGCCATACAGGATTTTTTTCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGA
GGCAAACTGCAGCTACATCAAGGCATGTTTCCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGA
GTGACACATGGCAGAGAACACAGCCTGATTGAAGATTTGATTCTACTTTTAGAAGAATGCGACGCCAACATCAGA
GCATCCTAAGGGAACGCAGTCAGAGGGAAATACGGCGTGTGCTTTGTTGAATGCCTTATTGAGGTCACACACTC
TATGCTTTGTTAGCTGTGTGAACCTCTCCTATTGGAAATTCTGTTCCGTGTTTGTGTAGGTAAATAAAGGCAGAC
ATGGTTTGCAAACCACAAGAATCATTAGTTGTAGAGAAGCACGATTATAATAAATTCAAACATTTGGTTGAGGA
TGCC

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FIGURE 643

CTTGCTTCGGACGCCGGATTTTGACGTGCTCTCGCGAGATTGGGTCTCTTCCTAAGCCGGCGCTCGGCAAGTTC
TCCCAGGAGAAAAGCCATGTTTCAGTTCGAGCGCCAAGATCGTGAAGCCCAATGGCGAGAAGCCGGACGAGTTCGAG
TCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCGGACCTCAAGGCTCAGCTCAGGGAGCTGAATATT
ACGGCAGCTAAGGAAATTGAAGTTGGTGGTGGTTCGGAAAGCTATCATAATCTTTGTTCCCGTTCCTCAACTGAAA
TCTTTCCAGAAAATCCAAGTCCGGCTAGTACGCGAATTGGAGAAAAAGTTCAGTGGGAAGCATGTCGTCTTTATC
GCTCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCCGTACAAAAAATAAGCAAAAGCGTCCCAGGAGCCGT
ACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCCCAAGCGAAAATTGTGGGCAAGAGAATCCGC
GTCAAACCTAGATGGCAGCCGGCTCATAAAGGTTCAATTTGGACAAAAGCACAGCAGAACAATGTGGAACACAAGGTT
GAAACTTTTTCTGGTGTCTATAAGAAGCTCACGGGCAAGGATGTTAATTTTGAATTCCTCAGAGTTTCAATTGTAA
ACAAAAATGACTAAATAAAAAAGTATATATTCACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 644

MFSSSAKIVKPNGEKPDEFESGISQALLELEMNSDLKAQLRELNITAAKEIEVGGGRKAIIFVVPVQLKSFQKI
QVRLVRELEKKFSGKHVVFIAQRRILPKPTRKSRTKNKQKRPRSRTLTA VHDAILEDLVFPSEIVGKRIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLTGKDVNFEFPEFQL

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FIGURE 645

GGCACGAGGCGGGCCAGCGACGGGCAGGACGCCCCGTTTCGCCTAGCGCGTGCTCAGGAGTTGGTGTCTGCCTGCCTGC
GCTCAGGATGAGGGGGGAATCTGGCCCTGGTGGGCGTTCTAATCAGCCTGGCCTTCCTGTCACTGCTGCCATCTGG
ACATCCTCAGCCGGCTGGCGATGACGCCTGCTCTGTGCAGATCCTCGTCCCTGGCCTCAAAGGGGATGCGGGAGA
GAAGGGAGACAAAGGCGCCCCCGGACGGCCTGGAAGAGTCGGCCCCACGGGAGAAAAAGGAGACATGGGGGACAA
AGGACAGAAAGGCAGTGTGGGTCGTTCATGGAAAAATTGGTCCCATTTGGCTCTAAAGGTGAGAAAGGAGATTCCGG
TGACATAGGACCCCTGGTCTTAATGGAGAACCAGGCCTCCCATGTGAGTGCAGCCAGCTGCGCAAGGCCATCGG
GGAGATGGACAACCAGGTCTCTCAGCTGACCAGCGAGCTCAAGTTCATCAAGAATGCTGTGCGCCGGTGTGCGCGA
GACGGAGAGCAAGATCTACCTGCTGGTGAAGGAGGAGAAGCGCTACGCGGACGCCCAGCTGTCTGCCAGGGCCG
CGGGGGCACGCTGAGCATGCCCAAGGACGAGGCTGCCAATGGCCTGATGGCCGCATACCTGGCGCAAGCCGGCCT
GGCCCGTGTCTTCATCGGCATCAACGACCTGGAGAAGGAGGGCGCCTTCGTGTACTCTGACCACTCCCCCATGCG
GACCTTCAACAAGTGGCGCAGCGGTGAGCCCAACAATGCCTACGACGAGGAGGACTGCGTGGAGATGGTGGCCTC
GGGCGGCTGGAACGACGTGGCCTGCCACACCACCATGTACTTCATGTGTGAGTTTGACAAGGAGAACATGTGAGC
CTCAGGCTGGGGCTGCCCATTGGGGGCCCCACATGTCCCTGCAGGGTTGGCAGGGACAGAGCCCAGACCATGGTG
CCAGCCAGGGAGCTGTCCCTCTGTGAAGGTGGAGGCTCACTGAGTAGAGGGCTGTTGTCTAAACTGAGAAAATG
GCCTATGCTTAAGAGGAAAAATGAAAGTGTTCCTGGGGTGCTGTCTCTGAAGAAGCAGAGTTTCATTACCTGTATT
GTAGCCCAATGTCATTATGTAATTATTACCCAGAATTGCTCTTCATAAAGCTTGTGCCTTTGTCCAAGCTATA
CAATAAAATCTTTAAGTAGTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 646

MRGNLALVGVLISLAFLSLLPSGHPQPAGDDACSVQILVPLKGDAGEKGDKGAPGRPGRVGPTGEKGDMDKGQ
KGSVGRHGKIGPIGSKGEKGDSDIGPPGPNGEPLPCECSQLRKAIGEMDNQVSQLTSELKFIKNAVAGVRETE
SKIYLLVKEEKRYADAQLSCQGRGGTLSMPKDEAANGLMAAYLAQAGLARVFIGINDLEKEGAFVYSDHSPMRTF
NKWRSGEPPNNAYDEEDCVEMVASGGWNDVACHTTMYFMCEFDKENM

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FIGURE 647

GGCACGAGGGGCTTCTGTACCTTCCTCACGGACCTTGGTACGGCCGCAGGTGACCCCTTAGCCCAGCTCCAGT
GGGCGGGTGGCAGGGTCATGGAGGACGCTGGCGGGCGGAGGAGACCCCGCCCCGAGGCCCCGCACCCCCCTC
AGCTCGCGCCTCCGGAGGAGCAGGGGTGCTCTTCCAGGAGGAAACCATCGATCTTGGCGGAGATGAGTTTGGAT
CCGAAGAGAACGAGACCGCATCGGAAGGCTCGAGTCCTCTCGCGGACAAGCTGAACGAACACATGATGGAGAGCG
TCCTCATCTCTGACTCCCCAACAGCGAGGGCGACGCGGGCGACCTGGGGCCGAGTGCGGGACGAAGCTGAGCCCCG
GAGGGGAAGGCGACCCAGGCCCCGAGCCCCGCGGGCACCCGAGTCCCAGCGGCGAGGCCGACGGCGACTGTGCCC
CCGAGGACGCGGCACCCAGTAGCGGAGGGGGCCCCGAGGACGCGGCCCCGCGAGGTCCCAGGCAGCGAAGCCG
CGCGCCCCGAGCAGGAGCCTCCCGTTGCGGAGCCGGTCCCGGTGTGCACCATCTTCAGCCAGCGCGCGCCCCCAG
CCTCCGGGGACGGCTTCGAGCCGCAGATGGTGAAGTCGCCCAGCTTCGGTGGCGCCAGCGAGGCCTCGGCCAGGA
CACCGCCCCAGGTCTGTCAGCCAGCCCCAGCCTCAGCACGTTCTTCGGAGACACGGCCGCCAGCCACTCCTTGG
CCTCGGACTTCTTCGACTCCTTTACTACCTCCGCCTTCATTTCCGTGACCAATCCCGGCGCGGGGCTCCCCGGCCC
CCGCCAGCCCGCCTCCCTCTGCTGTGCCGGGACCGAGGGGCGCCCCGAACCCGTGGCCATGCGAGGGCCCCAGG
CAGCTGCGCCCCCGCGCTCGCCAGAGCCTTTCGCGCACATCCAGGCAGTGTTCGAGGGAGTGACGACCCCTTTG
CCACCGCCCTGAGCATGAGCGAGATGGACCGGAGGAACGACGCCTGGCTTCCCGGCGAGGCTACGCGTGGAGTCC
TGCGGGCCGTGGCCACCCAGCAGCGCGGCGCCGTGTTCTGTTGACAAGGAGAACCTCACCATGCCGGGCCTCAGGT
TCGACAACATCCAGGGAGATGCAGTTAAAGACTTGATGCTTCGCTTCTGCGGTGAAAAGCTGCAGCAAAGAGAC
AAGTCCTAAATGCCGACTCAGTGAACAATCTTTTGTGGATTGAAACAGCTAATCAGCTGCAGAAACTGGAGGG
CAGCAGTGGACCTGTGCGGACGTCTCCTCACAGCCACGGCCAGGGCTACGGCAAGAGCGGGCTGCTCACCAGCC
ACACGACAGATTCACTGCAGCTCTGGTTTGTGAGGCTGGCACTACTAGTGAAGTTGGGCCTTTTCCAGAATGCTG
AGATGGAATTTGAACCCCTTCGGAATCTTGATCAGCCAGATCTTTATTACGAGTACTACCCGCACGTGTACCCTG
GGCGCAGGGGCTCCATGGTCCCCTTCTCGATGCGCATCTTGACGCGGAGCTTCAGCAGTACCTGGGGAACCCAC
AGGAGTCGCTGGATAGACTGCACAAGGTGAAGACTGTCTGCAGCAAGATCCTGGCCAATTTGGAGCAAGGCTTAG
CAGAAGACGGCGGCATGAGCAGCGTGAATCAGGAGGGCAGACAAGCCTCTATCCGGCTGTGGAGGTACGTCTGG
GCCGGGTGATGTACTCCATGGCAAACGTCTGCTCCTGATGAAGGATTATGTGCTGGCCGTGGATGCGTATCATT
CGGTTATCAAGTATTACCCAGAGCAAGAGCCCCAGCTGCTCAGCGGCATCGGCCGGATTTCCTCCAGATTGGAG
ACATAAAAAACAGCTGAAAAGTATTTTCAAGACGTTGAGAAAGTAACACAGAAATTAGACGGACTACAGGGTAAAA
TCATGGTTTTGATGAACAGCGCGTTCCCTCACCTCGGGCAGAATAACTTTGCAGAAGCCCACAGGTTCTTCACAG
AGATCTTAAGGATGGATCCAAGAAACGAGTGGCCAACAACAACGCTGCCGTGTGTCTGCTCTACCTGGGCAAGC
TCAAGGACTCCCTGCGGCAGCTGGAGGCCATGGTCCAGCAGGACCCAGGCACTACCTGCACGAGAGCGTGTCTT
TCAACCTGACCACCATGTACGAGCTGGAGTCTCACGGAGCATGCAGAAGAAACAGGCCCTGCTGGAGGCTGTCTG
CCGGCAAGGAGGGGGACAGCTTCAACACACAGTGCCTCAAGCTGGCCTAGCTGCTTCAACACACTACGTCAGAA
GGACCCGGGTCTTTGAAACTGTGTCTTGAAGCTAATGTATTAATGTGACATGGAGGAACTCAATAAAACTCCTGC
TTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 648

MLRFLGEKAAAKRQVLNADSVEQSFVGLKQLISCRNWRAAVDLCGRLLTAHGQGYGKSGLLTSHTTDSLQLWFVR
LALLVKLGFLFQNAEMEFEPFGNLDQPDLYEYYPHVYPGRRGSMVPFSMRILHAELQQYLGNPQESLDRHLHKVKT
VCSKILANLEQGLAEDGGMSSVTQEGRQASIRLWRSRLGRVMYSMANCLLLMKDYVLAVDAYHSVIKYYPEQEPQ
LLSGIGRISLQIGDIKTAEKYFQDVEKVTQKLDGLQGKIMVLMNSAFLHLGQNNFAEAHRFFTEILRMDPRNAVA
NNNAVCLLYLGKLDKSLRQLEAMVQDPRHYLHESVLFNLTTMYELESSRSMQKKQALLEAVAGKEGDSFNTQC
LKLA

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FIGURE 649

AATTCGGCACGAGAAGACTTCCAGTTTGGAGTCGTTTGCTGCGGGGAGGGAATGAATGGGCGCTGGGAACACGCC
CGCGAGGTGGGGACGCGCCGCGCTAGCGAGGTCCTTAGCGTGTGAGTGGCCGGGGTCGGGTCGCTTCCCCGCAG
CATGGAGGACGATGCACCACTGATCTACGGGCTGGAGTTCCAGGCACGTGCCTTAACACCTCAAACTGCAGAAAC
AGATGCCATTTCGGTTTTTGGTTGGGACGCAGTCTCTTAAATATGATAATCAGATCCATATCATAGATTTTGACGA
TGAAAACAACATTATAAATAAAAAATGTCCTCCTCCATCAAGCGGGTGAAATCTGGCATATTAGCGCTAGCCCTGC
AGACAGAGGTGTGCTGACGACCTGCTACAACAGAACTTCAGACAGCAAAGTCCTGACATGTGCAGCCGTGTGGAG
GATGCCGAAGGAATTGGAATCAGGCAGCCACGAGTCCCCTGATGATTTCATCCAGCACTGCACAGACCCCTGGAGCT
GCTCTGTACCTTGACAACACAGCCCATGGCAACATGGCCTGTGTGCTGTGGGAGCCAATGGGAGATGGGAAGAA
AATCATTTCCTTGGCTGATAACCATATCCTGCTGTGGGATTTACAGGAAAAGCTCGAGCCAGGCTGTGCTGGCCAG
CTCAGCGTCCCTGGAAGGGAAGGGACAACCTGAAGTTCACCTCAGGACGGTGGAGCCCACATCATAACTGCACCCA
GGTGGCCACAGCGAACGACACCACCCTCCGTGGCTGGGACACCCGGAGCATGAGCCAGATCTACTGCATAGAGAA
TGCCACGGACAGCTGGTGCGGGACCTTGACTTTAATCCCAATAAGCAGTACTACTTGGCCAGCTGCGGAGACGA
CTGTAAGGTGAAGTTCTGGGACACCCGAAATGTCACCGAACCCGTGAAGACCCCTGGAGGAGCACTCCCACTGGGT
GTGGAACGTCCGCTACAACCACTCTCATGACCAGCTGGTCCCTCACGGGCAGCAGTGACAGCAGAGTCATCCTTTC
CAACATGGTGTCCATCTCGTCGGAGCCCTTCGGCCACTTGGTAGACGACGATGACATCAGTGACCAGGAGGACCA
CCGTTCTGAAGAGAAGAGCAAGGAGCCCCCTGCAGGACAACGTGATCGCCACCTACGAGGAGCACGAGGACAGCGT
CTATGCCGTGGACTGGTCCCTCGGCTGACCCGTGGCTGTTTGCCTCCCTGAGCTATGACGGGAGGCTCGTGATCAA
CAGGGTGCCAGGGCCCTGAAGTACCACATCCTGCTATGACTCCCGGGCCTGGGTTATCCAGGTCCCATTGAGTG
GTTTTCTCTTGGCAGATTCTCAAACAGTCGCAGCTCTTTGGAGGTGACTCGTGTTCCAGGTGGATCCCTCTCTG
GGAGAGCCGCTGTTCCCTTCCCTGTAGCAGCAGCATTTATGAATGGGGTGAATGGGGCTATTGTCGACGGCACAGC
TAATGCCCCAACCCAGCCCCCTGTCGGCAGAGACAGAGCCCCACATTATTATGTGAATAACAATGTTTTCTGTTTT
AAGGGTGTGAGGATTTTCGCTTTTTAAAAAAATGTCTGTTCTGCAGTAGTAACTCTTCTTCTCTTGAGAGTAA
AAAATGAAATAAAATAAATCCACGCTGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 650

MEDDAPVIYGLEFQARALTPQTAETDAIRFLVGTQSLKYDNQIHIIDFDDENNIINKNVLLHQAGEIWHISASPA
DRGVLTTTCYNRTSDSKVLTCAAVWRMPKELESGSHESPDDSSSTAQTLELLCHLDNTAHGNMACVVWEPMGDGKK
IISLADNHILLWDLQESSQAVLASSASLEGKGQLKFTSGRWSPHHNCTQVATANDTTLRGWDTRSMSQIYCIEN
AHGQLVRDLDFNPNKQYYLASCGDDCKVKFWDTRNVTEPVKTLEESHVWVWNVRYNHSHDQLVLTGSSDSRVILS
NMVSISSEPFGLVDDDDISDQEDHRSEEKSKEPLQDNVIATYEEHEDSVYAVDWSSADPWLFASLSYDGRVIN
RVPRALKYHILL

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FIGURE 651

CCCAGGCGCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAAAGCCAATGG
GAAGGGCCGGGAGCGCGCGGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTCGCCCCGTGCACCCTGTCCCAG
CCGTCTGTCTGGCTGCTCGCTCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCA
TCACGGACCCGCAGCAGCTGCAGCTCTCGCCGCTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGCCGCCGG
CCCTGAGCGGGACCCGCGTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAGCCGAAAACCTA
AAGCAGCTGCCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCCGCTTTGTCTCTTCCCCATCG
AGTACCATGATATCTGGCAGATGTATAAGAAAGGCAGAGGCTTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCA
AGGACATTGAGCACTGGGAATCCCTGAAAACCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTGCGAG
CAAGCGATGGCATAGTAAATGAAAACCTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGTT
TCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGACACTTACATAAAAG
ATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCT
TGCGCTGGATTGGGGACAAAGAGGCTACCTATGGTGAACGTGTTGTAGCCTTTGCTGCAGTGGAAGGCATTTTCT
TTTCCGGTTCTTTTGCCTCGATATTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAAC
TTATTAGCAGAGATGAGGGTTTACACTGTGATTTTGTCTGCCTGATGTTCAAACACCTGGTACACAAACCATCGG
AGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCCGATAGAACAGGAGTTCCTCACTGAGGCCTTGCTGTGA
AGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAACTGG
GTTTTAGCAAGGTTTTTCAAGTAGAGAACCCATTTGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACT
TCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTTACCTTGG
ATGCTGACTTCTAAATGAAGTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAAATCA
GCTGAAGTGTACCAACTAGCCACACCATGAATTGTCCGTAATGTTTATTAAACAGCATCTTTAAACTGTGTAGC
TACCTCACAACCAGTCTGTCTGTTTATAGTGCTGGTAGTATCACCTTTTGCCAGAAGGCCTGGCTGGCTGTGAC
TTACCATAGCAGTGACAATGGCAGTCTTGGCTTTAAAGTGAGGGGTGACCCCTTTAGTGAGCTTAGCACAGCGGGA
TTAAACAGTCCTTTAACCAGCACAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAAATGTTTAC
TTAAATATAAACCTGGCACTTTACAAACAAATAAACATTGTTTTGTACTCACGGCGGCGATAATAGCTTGATTTA
TTTGGTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTCACAATTCACCTAAGTGACTAAAGTA
AGTTAAACTTGTGTAGACTAAGCATGTAATTTTTTAAGTTTTATTTTAAATGAATTAAATATTTGTTAACCAACTT
TAAAGTCAGTCTGTGTATACCTAGATATTAGTCAGTTGGTGCCAGATAGAAGACAGGTTGTGTTTTATCCTGT
GGCTTGTGTAGTGTCTGGGATTCTCTGCCCCCTCTGAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAA
GGAGCTTCTTAAAGTTAAATCACTAGAAATTTAGGGGTGATCTGGGCCCTTCATATGTGTGAGAAGCCGTTTCATTT
TATTTCTCACTGTATTTTCTCAACGCTCTGGTTGATGAGAAAAAATCTTGAAGAGTTTTTCATATGTGGGAGCTA
AGGTAGTATTGTAAAAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATCTTGCCCTGTAAAGTGGTGA
AATCAACTAGAGGTGGTTCCTACAAGTTGTTCAATCTAGTTTTGTTTGGTGTAAGTAGGTTGTGTGAGTTAATTC
ATTTATATTTACTATGTCTGTAAATCAGAAATTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTTCAT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 652

MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTTEPKTKAAAPGVEDEPLLRE
NPRRFVIFPIEYHDIWQMYKKAEEASFWTAEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGIVNENLVERFS
QEVQITEARCFYGFQIAMENIHSEMYSLIDTYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEATYGERV
VAFAAVEGIFFGSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE
QEFLEALPVKLIGMNCTLMKQYIEFVADRLMLELGF SKVFRVENPFD FMENISLEGKTNFFEKRVGEYQRMGVM
SSPTENSFTLDADF

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FIGURE 653

GTGCTGAGGCGCCCATGGCCTTCGCCCCGCGGCTCCTGCGCGGGCCACTGTGCGGGCCGCTGCTCGGGCGGGCGC
GGGGTCTGCGCTGGGGCCATGGCTCCGCCGCGCCGCTTCGTCTTGAGCTTCCCGACTGCACCCTGGCTCACTTC
GCCCTAGGCGCCGACGCCCCGGCGACGCAGACGCCCCGACCCCCGCCTGGCGGGCGCTGCTGGGGCCCCCGGAG
CGCAGCTACTGCTGTGCGTGCCCGTGACCCCGGACGCCGGCTGCGGGGCCCCGGGTCCGGGCGGCGCGGCTGCAC
CAGCGCCTGCTGCACCAGCTGCGCCGCGGCCCTTCCAGCGGTGCCAGCTGCTCAGGCTGCTCTGCTACTGCCCCG
GGCGGCCAGGCCGCGGGCGCACAGCAAGGCTTCCTGCTGCGCGACCCCCCTGGATGACCCTGACACCCGGCAAGCG
CTGCTCGAGCTGCTGGGCGCCTGTCAGGAGGACACGCCCCGCACTTGGGCGAGTTCGAGGCCGACCCGCGCGGC
CAGCTGTGGCAGCGCCTCTGGGAGGTGCAAGACGGCAGGCGGCTGCAGGTGGGCTGCGCACAGGTGCTGCCCGTC
CCGGAGCCCCCGCTGCACCCGGTGGTGCCAGACTTGCCAGTTCCGTGGTCTTCCCGGACCCGGAAGCCGCCCGG
GCCGTTTTGGAGGAGTGACCTCCTTTATTCCTGAAGCCCGGGCAGTGCTTGACCTGGTCGACCAGTGCCCAAAA
CAGATCCAGAAAGGAAAGTTCCAGGTTGTTGCCATCGAAGGACTGGATGCCACGGGTAAACCACGGTGACCCAG
TCAGTGGCAGATTCACTTAAGGCTGTCTCTTAAAGTCACCACCCCTCTTGCAATTGGCCAGTGGAGGAAGATCTTT
GATGATGAACCAACTATCATTAGAAGAGCTTTTTACTCTTTGGGCAATTATATTGTGGCCTCCGAAATAGCTAAA
GAATCTGCCAAATCTCCTGTGATTGTAGACAGGTACTGGCACAGCACGGCCACCTATGCCATAGCCACTGAGGTG
AGTGGGGGTCTCCAGCACCTGCCCCAGCCCATCACCTGTGTACCAGTGGCCAGAGGACCTGCTCAAACCTGAC
CTTATCCTGTGCTCACTGTGAGTCTTGAGGAGAGGTTGCAGAGGCTGCAGGGCCGGGGCATGGAGAAGACCAGG
GAAGAAGCAGAACTTGAGGCCAACAGTGTGTTTCGTCAAAGGTAGAAATGTCTACCAGCGGATGGAGAATCCT
GGCTGCCATGTGGTTGATGCCAGCCCCTCCAGAGAAAAGGTCCTGCAGACGGTATTAAGCCTAATCCAGAATAGT
TTTAGTGAAACCGTAGTTTACTCTGGCCAGGTGCCACGTCTAACTAGATTAGATGTTGTTTGAACATCTACATCCA
CCATTTGTTATGCAGTGTTCCCAAATTTCTGTTCTACAAGCATGTTGTGTGGCAGAAAACCTGGAGACCAGGCATC
TTAATTTTACTTTCAGCCATCGTACCCTCTTCTGACTGATGGACCCGTCATCACAAAGGTCCCTCTCATCATGTTT
CAGTGAGAGGCCAGCGATTGCTTTCTTCTGGCATAGTAAACATTTTCTTGGAACATATGTTTCACTTAATCACT
ACCAAATATCTGGAAGACCTGTCTTACTCAGACAGCACCAAGGTGTACAGAAGCAGCAGACAAGATCTTCCAGATC
AGCAGGGAGACCCCGGAGCCTCTGCTTCTCCTACACTGGCATGCTGATGAGATCGTGACATGCCACATTGGCTT
CTTCCACATCTGGTTGCACTCGTCATGATGGGCTCGCTGCATCTCCCTCAGTCCCAAATTCCTAGAGCCAAGTGTT
CCTGCAGAGGCTGTCTATGTGTCTGGCTGCCCAAGGACACTCCTGCAGAGCCATTTTGGGTAAGGAACACTTA
CAAAGAAGGCATTGATCTTGTGTCTGAGGCTCAGAGCCCTTTTGATAGGCTTCTGAGTCATATATAAAGACATTC
AAGCCAAGATGCTCCAACCTGCAAATATACCAACCTTCTCTGAATTATATTTTGCTTATTTATATTTCTTTCTTT
TTTTCTAAAGTATGGCTCTGAATAGAATGCACATTTTCCATTGAACTGGATGCATTTCACTTAGCCAATCCAGTA
ATTTATTTATATTAATCTATACATAATATGTTTCTCAGCATAGGAGCTATGATTCATTAATTTAAAGTGAGTC
AAAACGCTAAATGCAATGTTTGTGTGATTTTTCATTACACAACTTAATTTGTCTTGTTAAATAAGTACAGTGG
ATCTTGGAGTGGGATTTCTTGGTAAATTATCTTGCACTTGAATGTCTCATGATTACATATGAAATCGCTTTGACA
TATCTTTAGACAGAAAAAGTAGCTGAGTGAGGGGAAATTATAGAGCTGTGTGACTTTAGGGAGTAGGTTGAAC
CAGGTGATTACCTAAATTCCTTCCAGTTCAAAGGCAGATAAATCTGTAAATTATTTATCCTATCTACCATTTT
TTAAGAAGACATTACTCCAAAATAATTAAATTTAAGGCTTATCAGGTCTGCATATAGAATCTTAAATTTCTAATA
AAGTTTCATGTTAATGTCATAGGATTTTAAAGAGCTATAGGTAATTTCTATATAATATGTGTATATTAAGT
TAATTGATTTAGTTGAAAGTATTTTAAAGCTGATAAATAGCATTAGGGTTCTTGCAATGTGGTATCTAGCTGT
ATTATTGGTTTTATTTACTTTAAACATTTTGAAAAGCTTATACTGGCAGCCTAGAAAAACAACAATTAATGTAT
CTTTATGTCCCTGGCACATGAATAAACCTTTGCTGTGGTTTACT